UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

MULTI-MEDIA INSPECTION REPORT U.S. MARINE CORPS QUANTICO MARINE BASE

AUGUST 11-15, 1997

ATTACHMENTS & PHOTOGRAPHS

FACILITY INSPECTION PROGRAM
ANNAPOLIS, MARYLAND

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	United States Environme	ntal Protection Agency	
	Washington,		
	Hazardous W	_	
Date Received	Ap <u>p</u> lio		- 10 10 10 10 10
Month Day Year	Par	t A	
4	(Read the Instructio	ns before starting)	
I. Installation's EPA ID Number (M	lark 'X' in the appropriate box)		
A. First Part A Submission	8	X B. Part A Amendmen	t » 5
C. Installation's EPA ID Number	D. Seconda	ry ID Number (If applicable)	3.
V A 1 1 7 0 0 2	4 7 2 2		T N 27
II. Name of Facility			
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III: Facility Location (Physical add			
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(Name County Name			
PRINC	E WILLI	A M / S T A F	FORD
B. Land Type C. Geographic Loc	eation		D. Facility Existence Date
(Enter code): LATITUDE (Degrees,	minutes, & seconds) LONGITUDE (Degrees, minutes & seconds)	Month Day Year
F 3 8 3 3		2 5	0 4 3 0 1 9 8 9
IV. Facility Mailing Address			
Street or P.O. Box	A S S S S		*
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S A M E A S City or Town		State Zip Co	ode
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V. Facility Contact (Person to be	contacted regarding waste act		SOUTH AND SERVICE OF THE SERVICE OF
Name (Last)		(First)	
P H I P P S		RALPH	
Job Title		Phone Number (Area Code a	and Number)
E N V P G M S	M G R	7 0 3 - 7 8 4	- 4 0 3 0
VI. Facility Contact Address (See		THE RESERVE OF THE PARTY OF THE	
A. Contact Address Location Mailing Other B. Street or			
X		State Zip Co	nde .
City or Town		State Lip Co	

L. Permit Type (Enter code)	B. Permit Number								er	C. Description			
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E	7	0	2	6	7					3.	1	Marine Corps Base air permit	
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E	v		6	1	5	3	0	6.	3			Camp Upshur water treatment plant	

Secondary ID Number (Enter from page 1)-

EP	A I.D	. Nu	mbei	(En	ter fi	rom	page	1)				
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XI. Nature of Business (Provide a brief description)

To develop and provide training to major elements of the U.S. Marine Corps. To provide training to officers and senior enlisted personnel. To provide helicopter support for the U.S. Government Executive Branch. To develop equipment, doctrine, tactics, and techniques for weapons and weapon systems to be used by landing forces in amphibious operations. To maintain and operate facilities and provide administrative/logistical support for the installation.

XIL Process Codes and Design Capacities:

- PROCESS CODE Enter the code from the list of process codes below that best describes each process to be used at the facility. Thirteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), describe the process (including its design capacity) in the space provided in item XIII.
- PROCESS DESIGN CAPACITY For each code entered in column A, enter the capacity of the process.
 - AMOUNT Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement
 - action) enter the total amount of waste for that process.

 UNIT OF MEASURE For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used....
- C. PROCESS TOTAL NUMBER OF UNITS Enter the total number of units used with the corresponding process code.

PROCESS CODE PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS CODE PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Disposal: D79 Underground injection D80 Landfill D81 Land Treatment D82 Ocean Disposal D83 Surface Impoundment D99 Other Storage Storage: S01 Container (Barrel, Drum, Etc.) Tank S03 Waste Pile S04 Surface Impoundment D70 Drip Pad S06 Containment Building S99 Other Disposal Treatment: T01 Tank T02 Surface Impoundment T03 Incinerator T04 'Other Treatment T04 'Other Treatment T83 Aggregate Kiin T84 Phosphate Kiin T83 Coke Oven	Gallons; Liters; Gallons Per Day; or Liters Per Day acre-feet or Hectare-metar Acres or Hectares Gallons Per Day or Liters Per Day Gallons or Liters Any Unit of Measure Listed Below Gallons or Liters Cubic Yards or Cubic Meters Gallons or Liters Cubic Yards or Cubic Meters Gallons or Liters Cubic Yards or Cubic Meters Any Unit of Measure Listed Below Gallons Per Day or Liters Per Day Gallons Per Day or Liters Per Day Gallons Per Day or Liters Per Day Gallons Per Hour; Metric Tons Per Hour; or Btu's Per Hour Gallons Per Day; Liters Per Day; Pounds Per Hour, Short Tons Per Hour; Short Tons Per Hour, Metric Tons Per Day; Metric Tons Per Hour Gallons or Liters Gallons or Liters Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Hour; Short Tons Per Day; or Btu's Per Hour	T87 Smeiting, Meiting, Or Refining Furnace T88 Titanium Dioxide Chloride Process Oxidation Reactor T89 Methane Reforming Furnace T90 Pulping Liquor Recovery Furnace T91 Combustion Device Used in The Recovery Of Sulfur Values From Spent Sulfuric Acid T92 Halogen Acid Furnaces T93 Other Industrial Furnaces Listed in 40 CFR §260.10 T94 Containment Building Miscellaneous (Subpart X01 Open Burning/Open Detonation X02 Mechanical Processing X03 Thermal Unit	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour

UNIT OF MEASURE CODE	UNIT OF MEASURE MEASURE CODE	UNIT OF MEASURE CODE
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Secondary ID Number (Enter from page 1)

XIV. Description of Hazardous Wastes

- A. EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	К
TONS	Τ	METRIC TONS	М

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in liem XII A. on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wests: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in item XII A. on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

- 1. Enter the first two as described above.
- 2. Enter "000" in the extreme right box of Item XIV-D(1).
- 3. Enter in the space provided on page 7, item XIV-E, the line number and the additional code(s).
- 2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form (D_i(2)).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns
 B, C and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat,
 store, and/or dispose of the waste.
- In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste.
 In column D(2) on that line enter "included with above" and make no other entries on that line.
- Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed westes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

			A. E	PA		B. ESTIMATED	C. UNIT OF					15			Ε	D. PROCESS
Lin Num		W		ARD E NO code) .	ANNUAL QUANTITY OF WASTE	MEASURE		(1	() PR	OCE	ss c	ODE	S (E	nter)	(2) PROCESS DESCRIPTION (if a code is not entered in D(1))
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x	2	D	0	0	2	400	P	7	0	3	D	8	0			
X	3	D	0	0	1	100	P	7	0	3	D	8	0	_		
x	4	D	0	0	2											Included With Above

EPA I.D	. Nun	nber (Enter fr	om pege 1)					Secondar	y ID Number (Enter from page 1)
v A	1	1 7 0	0 2 4	7 2 2					
CIV. De	script	tion of Hazan	dous Wastes	(Continued)					
		A. EPA lazardous	B. Estimated Annual	C. Unit of				D. PA	OCESSES
Line lumber	V	Vaste No. Inter code)	Quantity of Waste	(Enter	(1)	PROC	ESS CODE	S (Enter code)	(2) PROCESS DESCRIPTION (If a code is not entered in D(1))
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EPA ID No. VA1170024722

Item XIV. Description of Hazardous Wastes (continued)

-3		EPA				
Lin Num		Haz. Waste <u>Code</u>	Est. Annual <u>Quantity</u>	Unit of Measure	Process Code	Process <u>Description</u>
34		D033	w			Included with above
35		D034				Included with above
36		D035				Included with above
37		D036	::			Included with above
38		D037	*			Included with above
39		D038	1		8 @	Included with above
40		D039		F: 10		Included with above
41		D040		3		Included with above
42		D041				Included with above
43		D042	2			Included with above
44		D043	er 20			Included with above
45		F001	44			Included with above
46	,	F002	7. 8			Included with above
47		F003				Included with above
48		F004				Included with above
49		F005	3			Included with above
50		F027		0 V		Included with above
51		F039				Included with above
52		P001	20 each	P	S01	
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to this application a topographic map, or other equivalent map, or other equivalent map, or appropriate show the puttine of the facility, the location of each of its lous waste treatment, storage, or disposal facilities, and each wall curisce water bodies in this map area. See instructions for precise.	existing and proposed intake and discharge structures, where it injects fluids underground. Include all springs,
cility Drawing.	
ciating facilities must include a scale drawing of the facility (S	ee instructions for more detail).
Photographer	4. The state of th
sdeting facilities must include photographe (serial or ground-level) t disposal areas; and alias of future storage, treatment or disposal an	reir (see Instructions for more detail)
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EPA ID No. VA1170024722

Item XV. Map

Figures A-1 and A-2 are two 1:50,000 metric topographic maps from the U.S. Geological Survey (USGS) showing one mile from the boundary of Marine Corps Base (MCB), Quantico. Note that these maps are comparable to the 15 minute series USGS maps (which are no longer available) and that no equivalent map was available for the western portion of MCB, Quantico.

For additional detail of the features in the vicinity of the Hazardous Waste Storage Facility (HWSF), refer to the following maps provided in the Part B permit application:

- Complete boundary of MCB, Quantico (Section B, Figure B-2)
- USGS topographic map showing 1 mile around the HWSF (Section B, Figure B-3)
- Land use (Section B, Figures B-5 and B-6)
- Outfalls, power lines, monitoring wells, and other features (Section B, Figure B-8)
- Hazardous waste generator locations (Section B, Figures B-9 and B-10)

Solid waste management units are addressed in Section J.

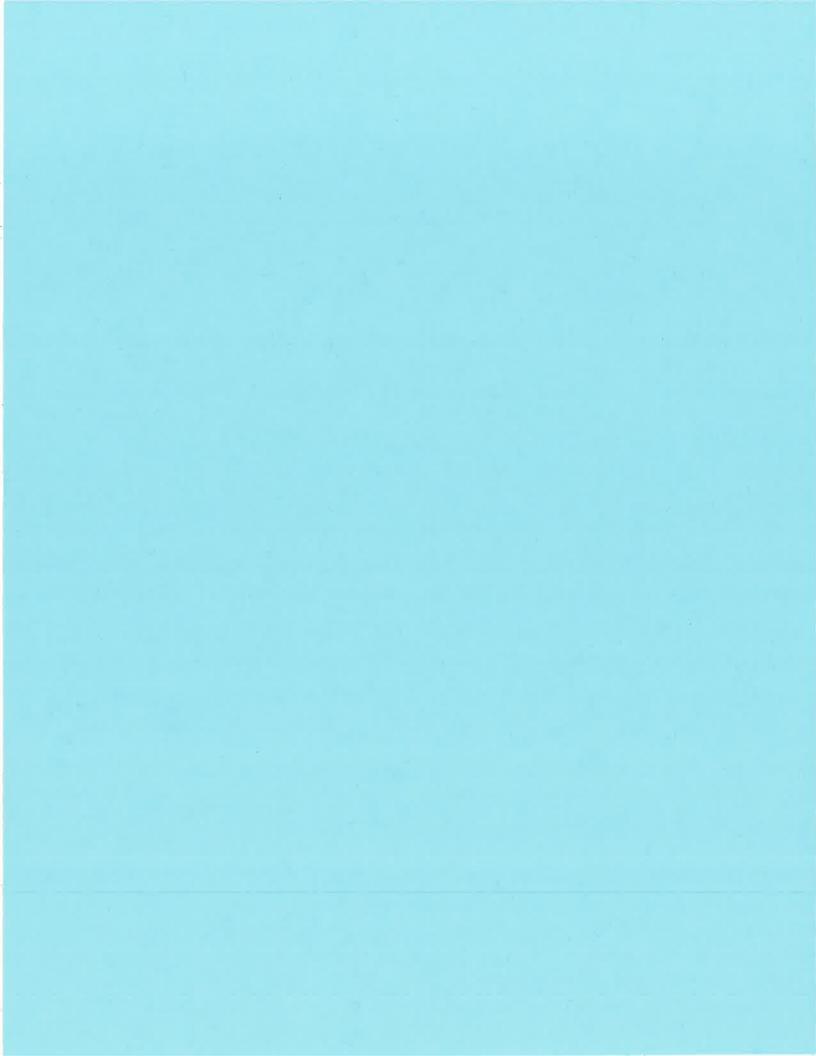
Item XVI. Facility Drawing

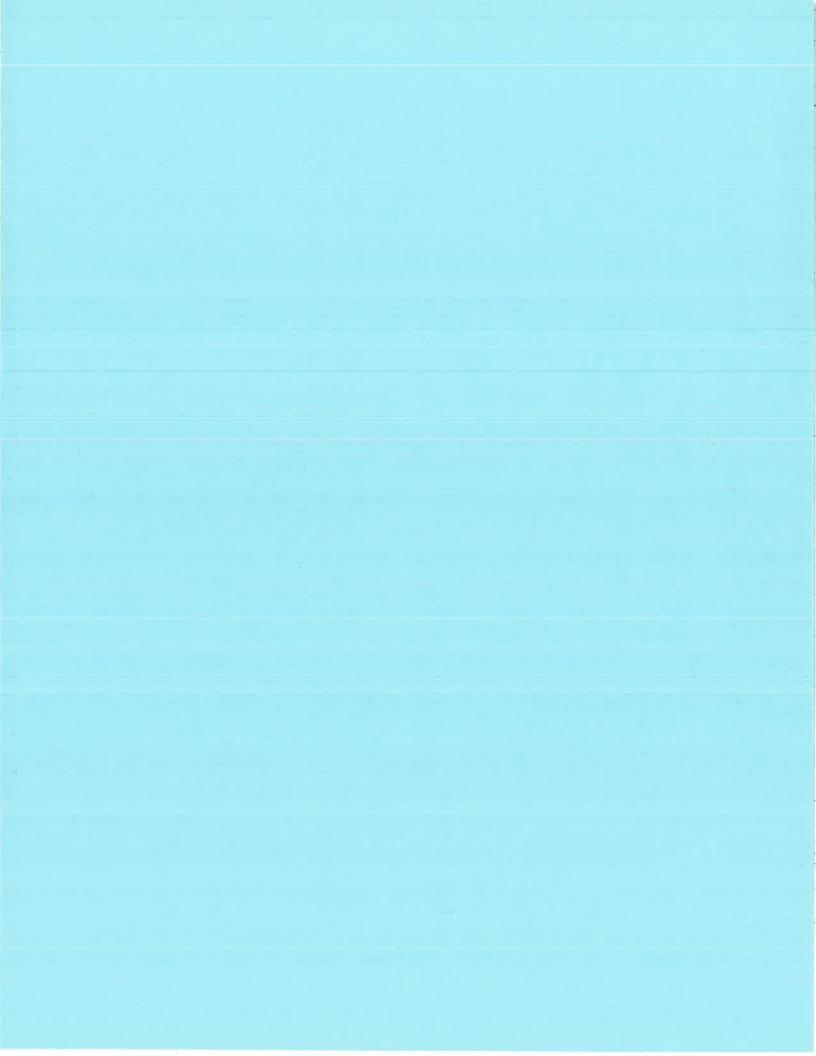
Refer to Figure D-1 in Section D for a drawing illustrating the HWSF and its features.

Item XVII. Photographs

Photographs of the HWSF are provided as Figures A-3 through A-7.

Figure A-1. USGS Topographic Map -- Northern Portion of MCB, Quantico (in sheet protector following)





RCRA-2

07 August 97

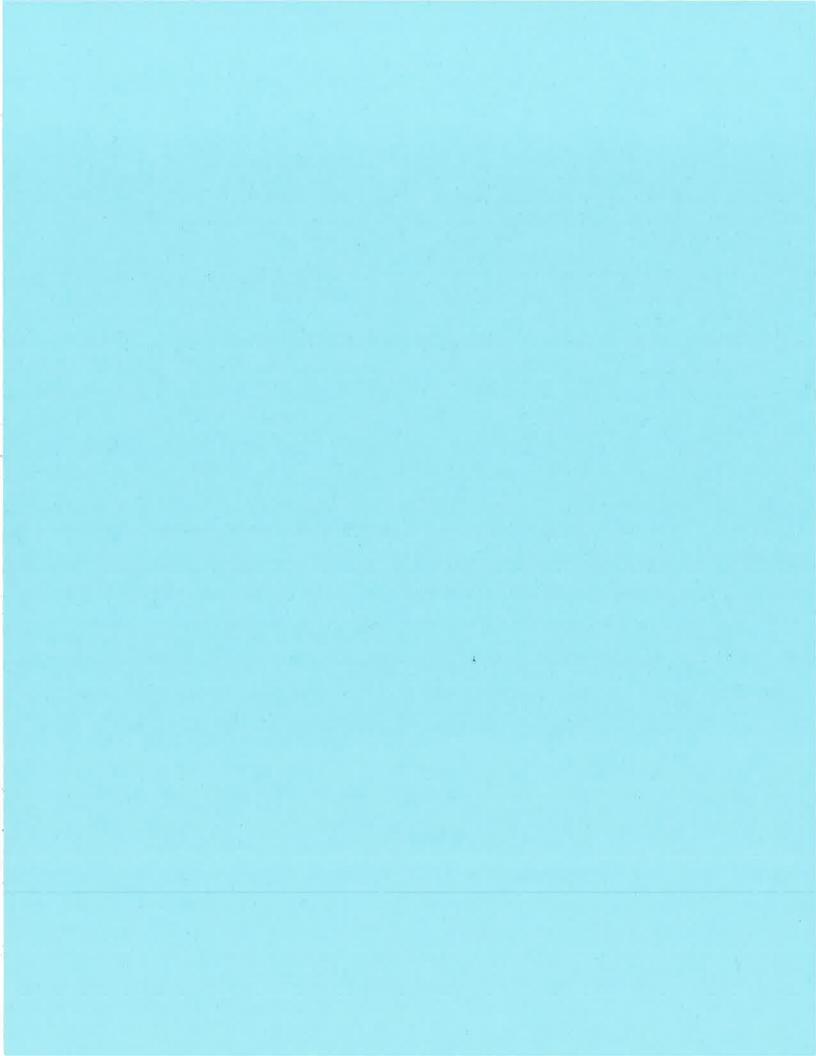
LESS THAN 90 DAY HW GENERATOR SITES

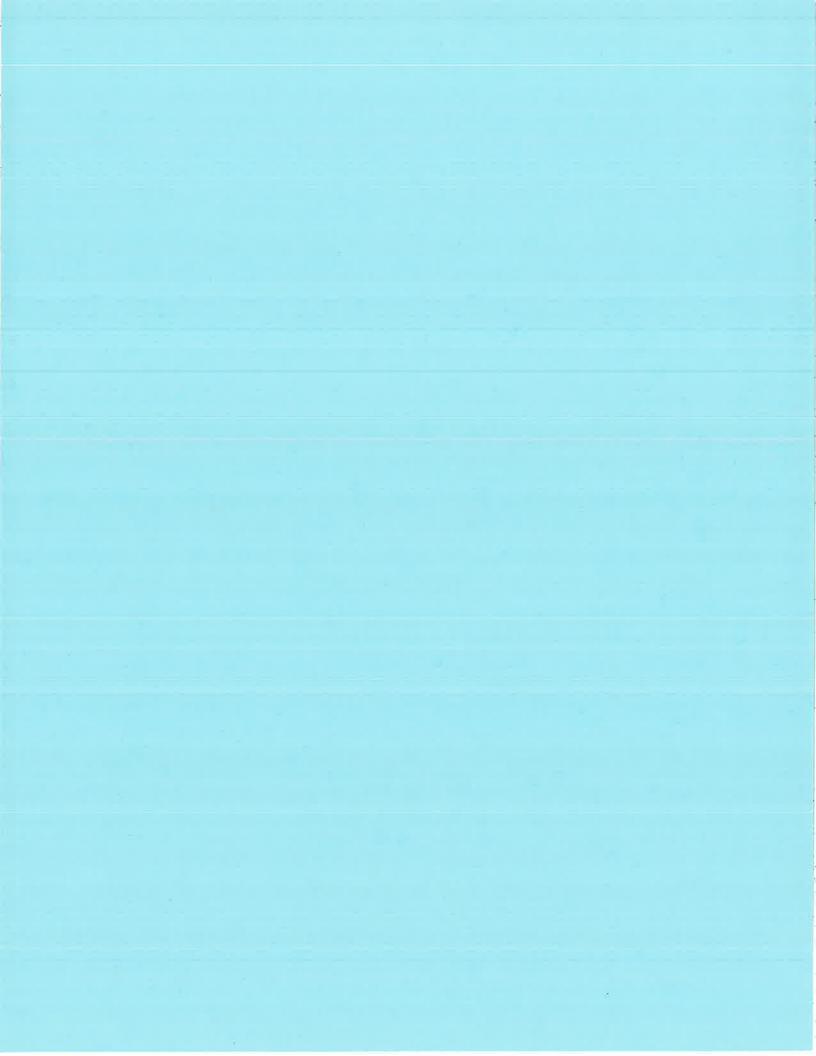
#	GENERATOR BLDG#	CONTACT	EXT
1.	Communication Officers School 3185	SGT Munoz CPL Hernandez	5834 2310
2.	Facilities Maintenance 3252	SSGT Loiseau SGT Shoemaker	2227 2372
3.	Facilities Support Branch 2013	GYSGT Columbe SGT Rosario	4440
4.	FBI Lab 27942	Mr. Long 9/640-	1195
5.	HMX-1 Green & White Sides 2101	GY Basmajian	2097
6.	Museum Restoration 2112	Mr. Garringer CPL Neives	3111
7.	MWR Auto Hobby Shop 4	Jeff Weaver	2729
8.	Naval Medical Clinic 2200	Mrs. Endler	3151
9.	Records Branch 2008		56 67 3902
10.	Weapons Training Battalion 27241	GY Sheagly SGT Slack	5375
updated	8/07/97	·	

4 August 97

SATELLITE HW GENERATOR SITES

#	Generator	Where	Contact	Ext
1.	Officers Candidate School	2118	GYSGT Meehan	2575
2.	The Basic School	24006	CAPT Folsom SSGT Alexander	4523
3.	Records Branch/Basement	2008	SGT McIntosh CPL Norwood	3537 3254
4.	Security Battalion	2043	SSGT Starner	4883
5.	Marine Corp Security Guard.	2007	GYSGT Hatke	3164
6.	FBI Gun Vault	27939	Jimmy Blakely Norman Gallamore	640-1585
7.	Quantico High School	3308	Mark Butler	2066
8.	Waste Water Treatment	660 / ® N	fr. Sinclair	2147
9.	FBI (HRT)	5911 N	Mr. Warren	640-1736
10.	H & S Battalion	2006	Capt Gilmore SSGT Jones LCPL Stenquist	4447 4257 2227 4046





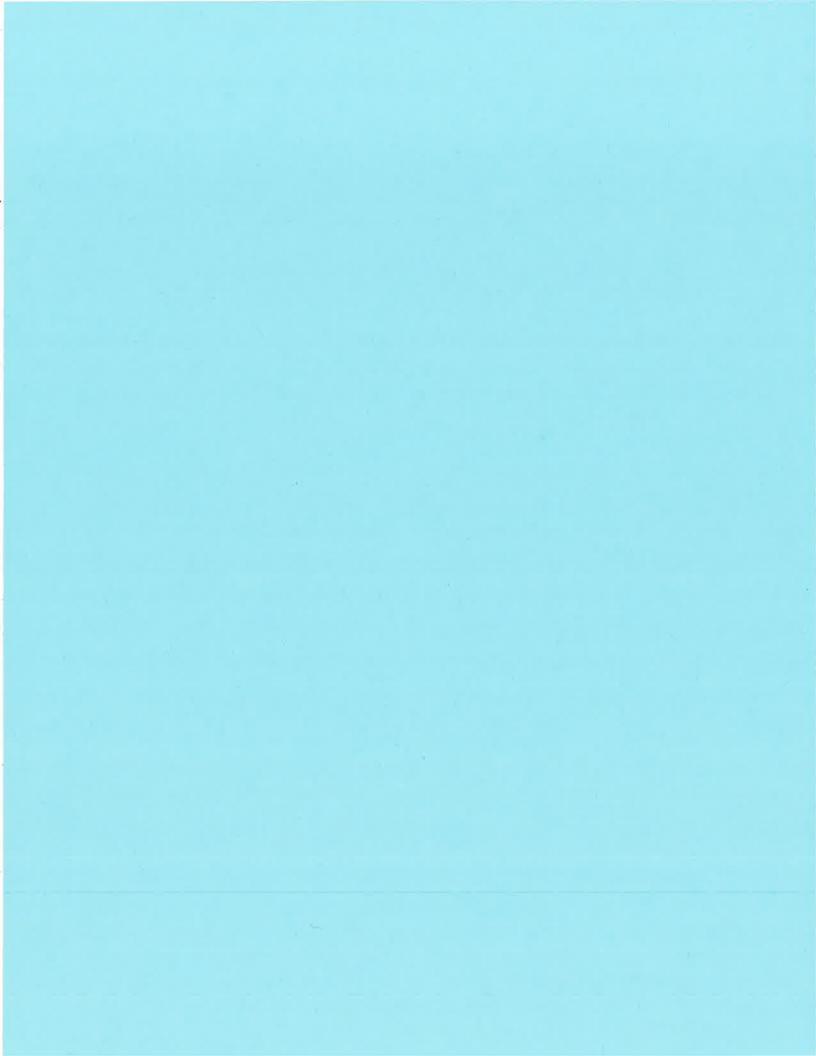
RCRA-3

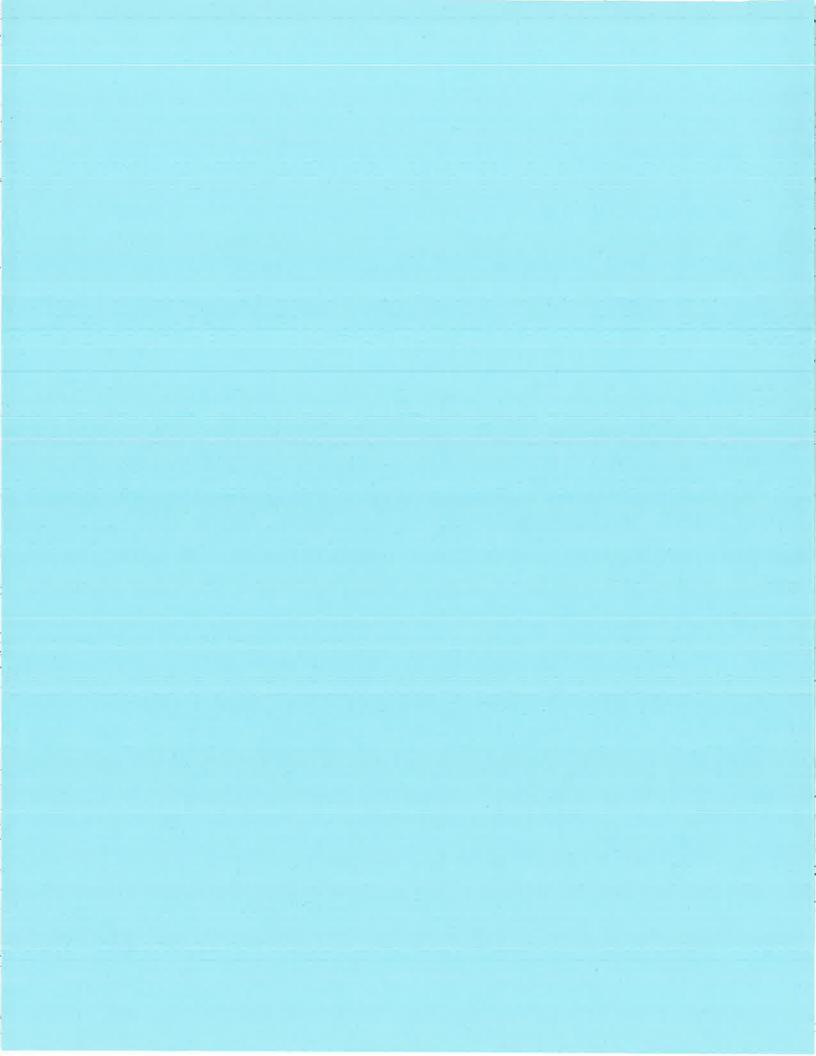
4 August 97

SATELLITE HW GENERATOR SITES

#	Generator	Where	Contact	Ext
1.	Officers Candidate School	2118	GYSGT Meehan	2575
2.	The Basic School	24006	CAPT Folsom SSGT Alexander	4523
3.	Records Branch/Basement	2008	SGT McIntosh CPL Norwood	3537 3254
4.	Security Battalion	2043	SSGT Starner	4883
5.	Marine Corp Security Guard.	2007	GYSGT Hatke	3164
6.	FBI Gun Vault	27939	Jimmy Blakely Norman Gallamore	640-1585
7.	Quantico High School	3308	Mark Butler	2066
8.	Waste Water Treatment	.660 / 1	Mr. Sinclair	2147
9.	FBI (HRT) 26	5911 N	Mr. Warren	640-1736
10.	H & S Battalion	2006	Capt Gilmore SSGT Jones LCPL Stenquist	4447 4257 2227 4046

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UNITED STATES MARINE MARINE CORPS BASE MARINE CORPS COMBAT DEVELOPMENT COMMAND QUANTICO, VIRGINIA 22134-5000

IN REPLY REFER TO:

6280/2 B 046

28 FEB 1996

Ms. Claire R. Slaughter
Department of Environmental Quality
Office of Technical Assistance/Waste
P.O. Box 10009
Richmond, VA 23240-0009

Dear Ms. Slaughter,

The United States Environmental Protection Agency's 1995 Hazardous Waste Report for Marine Corps Base, Quantico, Virginia is provided at the enclosure.

Should you have any questions regarding this report, please contact Mr. Ralph Phipps at (703) 784-4030.

Sincerely,

MARK A. COSTA

Colonel, U.S. Marine Corps Director, Facilities Division By direction of

the Commanding General

Encl:

(1) 1995 Hazardous Waste Report

Copy to:

Commandant of the Marine Corps (LFL), Headquarters United States Marine Corps, Washington D.C. 20380-0001
Naval Facilities Engineering Service Center, Port Hueneme, CA 93043
Ms. Sheila Briggs (3HW62), U.S. EPA, Region III, RECRA Enforcement UST Branch, 841 Chestnut Bldg, Philadelphia, PA 19107

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER SITE NAME Marine Corps Combat Development Command Quantico, Virginia 22134-5053 EPA ID NO VALL 170 0124 7 2 2	U.S. ENVIRONMENTAL PROTECTION AGENCY 1995 Hazardous Waste Report IDENTIFICATION AND CERTIFICATION
INSTRUCTIONS: Read the detailed instructions beginning on page 9 of the 1995 Haz	ardous Waste Report booklet before completing this form.
Sec. I Site name and location address. Complete A through H. Check the box D information. Instruction page 10. A. EPA ID No. Same as label 💢 or →	B. County Prince William, Stafford, Fauquier D. Has the site name associated with this EPA ID changed since 1993? 1 Yes \$\inx 2\$ No
E. Street name and number. If not applicable, enter industrial park, building name, or ot Same as label 평 or → F. City, town, village, etc. Same as label 평 or →	Hr physical location-description. G. State Same as label > Sa
Sec. It Mailing address of site. Instruction page 10. A. Is the mailing address the same as the location address?	
	s and Environmental Affairs Branch
C. City, town, village, etc. Quantico	D. State V.A. E. Zip Code 2 12 1 13 14 1 - 15 10 15 13
Sec. III Name, title, and telephone number of the person who should be contacted	if questions arise regarding this report. Instruction page 10.
A. Please print: Last Name First name M.I. Phipps Ralph S	Supervisor, Env. Prot. Spec C. Telephone 7.0.3. 1.7.8.4.4.0.3.0.
qualified personnel properly gather and evaluate the information submitted. responsible for gathering the information, the information submitted is, to	ere prepared under my direction or supervision in accordance with a system designed to assure that. Based on my inquiry of the person or persons who manage the system, or those persons directly the best of my knowledge and belief, true, accurate and complete. I am aware that there are if Recovery Act for submitting false information, including the possibility of fine and imprisonment for
A. Please print: Last Name First name M.I. Costa Mark A	B. Title Director, Facilities Division
C. Signature	D Cate of signature

Page 1 044

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imments:

ec.V - Generator Status. Instruction pages	10, 12.		8 11				
	2 2						
1995 RCRA generator status	B. Reason for not generating	not generaling					
CHECK ONE BOX BELOW)	(CHECK ALL THAT APPLY)	IAT APPLY)					
2 2 SQG SKIP to SEC. VI 2 3 CESQG	□ 1 Never generated □ 2 Out of business □ 3 Only excluded or delisted waste □ 4 Only non-hazardous waste	□ 5 Periodic or occa; □ 6 Waste minimizati □ 7 Other (SPECIFY)	on activity	OX BELOW)			
ec.VI - On-Site Waste Management Status.	Instruction pages 13, 14.	the or		ACTION OF THE PARTY OF THE PART			
. Storage subject to RCRA permitting requirem 3 - Containers	nents B. Treatment, disposal, requirements	or recycling subject to RC	RA permitting	C. RCRA-exempt treatments disposal, or recycling			
ec.VII - Waste Minimization Activity durin	1994 or 1995. Instruction pages 14	4, 15:					
. Did this site begin or expand a <u>source reduc</u> uring 1994 or 1995?	8. Did this site begin or 1995?	expand a <u>recycling</u> activity	y during 1994 o	C. Did this site systematically investigate opportunities for source reduction or recycling during 1994 or 1995?			
[1 Yes 3 2 No	a(1 Yes □ 2 No		河 1 Yes □ 2 No				
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Did any of the factors listed below delay or	limit the site's ability to initiate new or	additional on-site or off-si	e <u>recycling</u> activ	ities during 1994 or 1995?			
HECK YES OR NO FOR EACH ITEM)	-, ,	Yes No					
No 1 34 2 a. Insufficient-capital implement new rec	to install new recycling equipment or veling practice	<u>Yes</u>	-	al limitations of production processes inhibit shipments off- recycling			
1 32 b. Lack of technical is	nformation on recycling techniques ite's specific production process	□1	h. Technica	al limitations of production processes inhibit on site recycling ng burdens inhibit recycling			
c. Recycling is not ec in waste managem investment	onomically feasible: cost savings ent will not recover—the capital	日 月 月 2 月 月 月 2 日 1 月 2	j. Lack of k. Unable t l. Recyclin	permitted off-site recycling facilities to identify a market for recycled materials g previously implemented - additional recycling does not			
1 A 2 d. Concern that produ	ct quality may decline as a result of	□1 # 2	• • •	to be technically feasible g previously implemented - additional recycling does not			
	anifest wastes inhibit shipments of g	□1 # 12	appear t	to be economically feasible g previously implemented - additional recycling does not			
	ovisions inhibit shipments off-site for	□ 1 # 2	appear t	to be leasible due to permitting requirements PECIFY COMMENTS IN BOX BELOW)			

Marine Corps Combat Development Command Quantico, Virginia 22314-5053

VA1 170 024 722

Waste Minimization Activities - 1995

- 1. Recycling of pumpable Lead-free paint and paint thinner is working effectively.
- 2. Replaced parts washing solvents with a less hazardous (i.e. higher flash point) solvent, where practicable.
- 3. Implemented the use of evaporation to reduce silver containing chemical waste (i.e. photographic fixer and developer).
- 4. Increased Command emphasis and individual awareness which resulted in reduced number of spills and subsequently a reduced quantity of hazardous spill residue requiring disposal.
- 5. Freon was replaced with PD680 which is non-hazardous in the maintenance and operation of helicopters.
- 6. Power-clean rags from printing operation are being recycled.

Marine Corps Combat Development Command
Quantico, Virginia 22134-5053

EPA 10 ND VA_1 170 024 722



U.S. ENVIRONMENTAL PROTECTION AGENCY

1995 Hazardous Waste Report

OFF-SITE IDENTIFICATION

INSTRUCTIONS. Read the detailed instructions on the reverse side before com-	gleting this form
Site 1 A EPA ID No. of off-site installation or transporter (M.D.D.) 0.0 0 7.3 7 319.5	B. Name of off-site installation or transcorter Safety Kleen Corp.
C. Handler type (CHECK ALL THAT APPLY) □ Generator □ Transporter **TSOR	D. Address of off site installation Street 12164 Tech Road City Silver Spring State M. D. Zip 2 0.9 10 14 1
Site 2 A. EPA ID No. of olf-site installation or transporter N.C.D. 0.7.7 8.4.0 1; 4.8	8. Name of off-site installation of transporter Safety Kleen Corp
C. Handler type (CHECK ALL THAT APPLY) Generator . Transporter TSDR	D. Address of off-site installation Street 6812 Old Mendenhall Road City Arehdale State N. O 29 2 7 2 6 3 - 1
Site 3 A. EPA ID No. of off-site installation or transporter N, J, D, 0, 0, 2, 1, 8, 2, 8, 9, 7	8. Name of off-site matabasso or tra-porter Safety Kleen Corp.
C. Handler type (CHECK ALL THAT APPLY) □ Generator □ Transporter □ TSDR	D. Address of off-site installation Street 1200 Sylvan Street City Linden State N: I Zip 0.71 01316 - 1 1 1 1
Site 4 A. EPA ID No. or off-site installation or transporter $N.C_1D$, 0 , 0 , 0 , 0 , 6 , 4 , 8 , 4 , 5 , 1	8. Name of off-site installation or transcorter Laidlaw Environmental Services Inc.
C Handler type ICHECK ALL THAT APPLY) □ Generator □ Transporter ★TSDR	D. Address of off-site installation Street Route 11 Box 3, Waltington Ind. Rd. City Reidsville State N.C. Sip 2. 7. 31 2:0
Site 5 A. EPA ID No. of off-site installation or transporter $N\cdot C\cdot D$, $9\cdot 8\cdot 0$, $8\cdot 4\cdot 2$, $1\cdot 3\cdot 2$	B Name of off-site installation or transcorter ECOFLOW Inc.
C' Handler type CHECK ALL THAT APPLY Generator Transporter TSDR	C Address of off site installation Street 2750 Patterson Avenue City Greensboro State NG 37 2 7: 4: 0:7
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Marine Corps Combat Development Command Quantico, Virginia 22134-5053

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U.S ENVIRONMENTAL PROTECTION AGENCY

1995 Hazardous Waste Report

OFF-SITE IDENTIFICATION

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Site 2 A. EPA IC No. of off-site installation or transporter S. C.D. 0.7.0 3.7.5 9.8.5 C. Handler type :CHECK ALL THAT APPLY: Generator Transporter TSOR	6. Name of off-site installation or transporter Laidlaw Env. Services of S.C. Inc. D. Address of off-site installation Street Route 1, Box 255 City Pinewood State St.Ct Zip 2911125 - 1
Site 3 A. EPA ID No. of off-site installation or transporter K. Y. D. 10, 5, 3, 3, 4, 8, 1, 0, 8, C. Handler type (CHECK ALL THAT APPLY) Generator Transporter TSDR Site 4 A. EPA ID No. of off-site installation or transporter	B. Name of off-site installation or transporter Safety Kleen Corp. D. Address of off-site installation Street 3700 Lagrange Road City Smithfield State Kry Zip 4 0 0 6 8
N:J:D 0:012:338.5 :7.3 0 C handler type :CHECK ALL THAT APPLY: Senerator Transporter Transporter Site 5 A EPA IO No of off site installation or transporter	B Name of off-site installation or transcorter ET Dupont De Nemours & Co.Inc. D Address of eM-site installation Street Chamber Works, Route 130. Cir. Deepwater State No. 1 2 2 0 0 8 0 2 3
CHECK ALL THAT APPLY Concertor Transporter - "SOR	C - Address of idfi site installation Street State Dip

Marine Corps Combat Development Command
Quantico. Virginia.22134-5053

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U.S ENVIRONMENTAL PROTECTION AGENCY

1995 Hazardous Waste Report

OFF-SITE IDENTIFICATION

INSTRUCTIONS Read the detailed instructions on the leverse side before com	npleting this form."
Site 1 A EPA ID No. of off site installation of transporter S:C:D:9.8.7:5.7.4.6.4.7.	B Name of off site installation or transcriter Laidlaw Env. Services Inc. (1)
C Handler type (CHECK ALL THAT APPLY: □ Generator ズ Transporter □ TSDR	D. Address of off-site installation Street City State Zip
Site 2 A. EPA ID No. of off-site installation or transporter N: I : D 9 8 6 6 0 7 3 8 0	Name of off-site installation or transporter Maumme Express Inc.
C. Handler type :CHECK ALL THAT APPLY: Generator . Transporter TSDR	D. Address of off-site installation Street City State Zip
Site 3 A. EPA ID No. of off-site installation or transporter O: Ki Di 9. 8. 1 6. 0.5 3. 6. 3.	B. Name of off-site installation or transporter Environmental Transportation Services
C. Handler type (CHECK ALL THAT APPLY) □ Generator □ Transporter □ TSDR	D. Address of off-site installation Street City State Zip
Site 4 A. EPA IO No. of off-site installation or transporter L.L. D. 9.814.910.8.20.2	8 Name of off site installation or transporter Safety Kleen Corp.
C Handler type GHECK ALL THAT APPLY\ □ Generator	D. Address of off-site installation Street City State 2ip
Site 5 A. EPA ID No of old site installation or transporter N. J. D. O. 7.1. 6.2.9 9.7 6	9 Name of off site installation of transportation S - J Transportation
C Mondierchape — CHECK ALL THAT APPLY "Generator Transporter TSDR	C. Address on off site installation Sireet City State Sign

· 4-19-	Marine Corps Combat Development Command
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U.S. ENVIRONMENTAL PROTECTION AGENCY

1995 Hazardous Vraste Rep. 1

GM

INSTRUCTIONS Read the detailed instructions beginning on page 16 of the 1995 Hazardo	ous Waste Report booklet carble completing this form
Sec 1 A Waste description instruction page 18 Ignitable waste parts washing solvents from	Maintenance Operations: Petroleum Naptha
S EPA hatardous waste code Page 19.	Contain State hazardous waste code. Page 19
D. SIC tode Page 19. E. Origin code Page 19 F. Source code Page 20.	S. Point of measurement im Form code II. RCRA - radioactive mixed Page 22
97.1:1 System Type LM	Fage 20. 1 Page 20 1 1 2
Sec. II A. Quantity generated in 1994 Instruction Page 21. B. Quantity generated in 1995 Page 21.	C. UOM Density C. Do this site do any of the relewing to this waste treat or site. dispose on site, recycle on site, or distingly to a sewer-POTW? Page 21. The CONTINUE TO SYSTEM 1)
ON-SITE PROCESS SYSTEM 1	□ 1 Ibsigal = 2 s;
On-site process system type Quantity treated, disposed, or recycled on site Page 22. In 1995	On-site process system type Quantity treated, disposed, or recycled on site Page 22. in 1995 LM1
Sec.III A. Was any of this waste shipped off-site in 1995 . 76 1 Yes (CONTINUE Instruction page 22. 70 2 No (SKIP TO SEC	
	C. System type shipped to C. Crr site
Site 2 B EPA ID No of facility waste was shaped to Page 23	System type shipped to 2 Impate El Total quantity shipped in 1995 Fage 23 Page 23 Page 23 LY
	THIS FORM IS COMPLETE
S Activity Page 14 C Other effects Page 25 O Cuantity recycled in 995 c Page 25 Page 25 D 1 Nos D 2 No + D 2 No + D 3 Nos D 3 N	ue to new activities El Aprivity projection 1995 source reduction quantity Page 25 Faul 25 Faul 25
Service frequency for changeout of solvents in parrequirements	rts washer was increased because of customer

Marine Corps Combat Development Command
Quantico, Virginia 22134-5053

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U.S. ENVIRONMENTAL PROTECTION AGENCY

1995 Hazardous Waste Report



INSTRUCTIONS Read	the detailed instructions beginning on page 16 of the 1995 Hazard	lous waste Report booklet before completing this form
Sec. I A Waste	description - Instruction page 18	
	s washing solvent from Maintenance op	perations: Monoethanolamine
B. EPA natardnus waste		2 State hazardous waste code Fage 19
	D.O.O.6 N.A	•
	NA NA	N/A
0. SIC code Page 19.	E Origin code 1 Page 19 F. Source code Page 23. System Type 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	G. Point of measurement H. Form code Page 20. Page 20. LB 2 0 3
Instruction	y generated in 1994 B. Quantity generated in 1995 Page 21. 8 3 2 0 2 2 8 8 4 0	C. UDM Page 21. Density C. 2:5 this site do any of the following to this weste: treet or site, picpose on site, recycle on site, or discharge to a sewer-POTW? Page 21. 2 Yes (CONTINUE TO SYSTEM 1)
ON-SITE PROCESS SYSTE		□ 1 lbs/gal □ 2 sg □ 2 No (SKIP TO SEC. III) ON-SITE PROCESS SYSTEM 2
On-site process system typ Page 22.	Quantity treated, disposed, or recycled on site	On-site process system type Quantity treated, disposed, or recycled on site
r _w rrr	1 1333 · · · · · · · · · · · · · · · · ·	Page 22. in 1995
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Site 1	6. EPA ID No. of facility waste was shipped to Page 23. MDD 0 0 0 7 3 7 3 9 5	C. System type shipped to Page 23. Page 23. Page 23 1 Page 23. Page 23 1 Page 23. Page 23. Page 23.
Site 2	6 EPA IC No of facility waste was shipped to Page 23.	C System type shipped to 2. Orrists Fage 23. Page 23 Page 24 Page 25 Page 25 Page 25 Page 26 Page 26 Page 27 Page 28 Page 28 Page 28 Page 28 Page 28 Page 29 Page 20 Page
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IGSTRUCTIONS Read the detailed instructions beginning on page 16 of the 1995 Hazardo	ous Waste Report booklet before completing this form.
Sec 1 A Waste description instruction page 18 Ignitable waste paint and related products f	from painting operations
9 EPA hazardous waste code Page 19.	State hazaroous waste code Fage 18
F 0 0 3 F 0 0 5	
D 0 0 1 N A N A	N/A
D. SIC code Page 19. E. Origin code Page 19 F. Source code Page 23. System Type Manual Page 19 F. Source code Page 23.	G. Point of measurement H. Form coca Page 20. Page 20. 1 Page 20 9 I. RCRA - radioactive mixed Page 20.
Sec. II A. Quantity generated in 1994 Instruction Page 21. A. Quantity generated in 1995 Page 21. 2 6 4 4 . 0	C. UDM Density Page 21. 1 1 1 bs/gal = 2 sg C. UDM Density 1 2 1 this site do any of the rollowing to this waster free? or site, suspess on site, recycle on site, or discharge to a sewer-POTWP Page 21. 2 1 Yes (CONTINUE TO SYSTEM 1) 4 2 No (SKIP TO SEC. III)
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Sec IV A Did new activities in 1995 result in numerication of this waste? -2 lifes is instruction page 24.	CONTINUE TO BOX B) THIS FORM IS COMPLETE
8 Activity Page 24 C Other effects Page 25 D Quantity recycled in .995 of Page 25	ue to new activities E. Activity production of 1995 source reduction quantity Page 25
- 16	
Addition of paint gun cleaning services caused the	e increase in Qty of waste generated

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Sec. 1 A Waste description - Instruction page 18	
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Sec. II A. Quantity generated in 1994 B. Quantity generates in 1995	C. UDM Density C. C-0 this site do any of the following to this waste: freetier
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MySTRUCTIONS Read the detailed instructions beginning on page 16 of the 1995 Hazardo	ous Waste Report booklet before completing this form.
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3 EPA natardous waste code Page 19.	State hazardous waste code Fage 15
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NA NA	N/A
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INSTRUCTIONS Read the detailed instructions beginning on page 16 of the 1995 Hazardo	ous Waste Report bookler before completing this form.
Sec 1 A Waste description - Instruction page 18.	
Paint chips with lead from painting operation	ons
9. EPA datardous waste code Page 19.	State hazardous waste code Fage 19
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NA NA NA	
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Sec. II A. Quantity generated in 1994 Instruction Page 21. B. Quantity generated in 1995 Page 21.	C. UDM Density C. Did this site do any of the following to this waste: treat or site. dispose on site, recycle on site, or discharge to a sewer-POTW? Page 21.
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Marine Corps Combat Development Command Quantico, Virginia 22134-5053 V.A. 1. 1. 7. 0 J. 0, 2. 4. 7. 2. 2



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	from military communication training operations
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9.7.1.1 Sistem Type LM: 1.1.1 LA: 5.5	sage 20. 1 sage 3 0 9 2
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MeS'NUCTIONS Read the decaded instructions beginning on page '6 of the 1995 Hazard.	ous Waste Report booklet betwee completing this form
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Reduction due to implementation of evaporation unit (first of three units).

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U.S. ENVIRONMENTAL PROTECTION AGENCY

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	HIS FORM IS COMPLETE
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Freon was replaced with PD680 for latter year ope	orations

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Reduced amount generated by longer use o	of product

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Sec. IV. A. Did new activities to 1995 result or minimization of this waste? Concess Ristriction page 24. M.2. No. 1	CONTINUE TO BOX 5: PAS FORM IS COMPLETE
	re to new activities El Activity production 1995 source reduction quantity Page 26 cov. Page 26
Quantity disposed includes the backlog from CY Tetrachloroethylene filters with liquids	Y94

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INSTRUCTIONS Read the detailed instructions beginning on page 46 of the 1995 Hazarda	us Maste Report bookiet before completing this form
Sec 1 A Waste description instruction page 18 Tetrachloroethylene rags from printing oper	
3 LPA harardous waste code Page 19 D. 0.3.9 F. 0.0.2 N. A. N. A. N. A. N. A.	State recardous waste code Fage 16
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in Activity Page 14 2 Other effects Page 25 D Quantity recycled in 1995 o	THIS FORM IS COMPLETE Letto new activities Ell Aptivity production Fl. 1995, source reduction quantity. Page 26
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TA WA JIA.	NA
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On-site process system type Quantity treated, disposed, or recycled on site	On-site process system type
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Instruction Page 21. Page 21. 13 19 17 16 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C. UDM Page 21. 1.
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1995 Hazardous Waste Report



MSTRUCTIONS Read the decamed instructions beginning on page 16 of the 1995 Hazard	ous Maste Report booklet before completing this form
Sec 1 A Waste description Instruction page 18 Corrosive phosphoric acid from Research &	& Development lab
DOOZ NA NA NA NA	2 State hazardous waste code Fage 15
Section Page 19. E Origin code Page 19 F. Source code Page 23. Sestem Type March 19. F. Source code Page 23.	Page 20. 1 Page 30 4 I. RCRA radioactive mixed Page 20.
Sec. II A. Quantity generated in 1994 Instruction Page 21. Page 21. ON-SITE PROCESS SYSTEM 1 Quantity treated, disposed, or recycled on site in 1995 Legisland Page 22. Legisland Page 22. On-site process system type Quantity treated, disposed, or recycled on site in 1995	Page 21. 1
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Site C 8 EPA iC No of facility waste was shipped to Fage CS	2 System type shaped to 12 On one Page 23 Page 24 Page 25 Page 25 Page 25 Page 26 Page 26 Page 27 Page 28 Page 28
Sec. IV A Circl new activities in 1995 result in numeriation of this waste? Concerns in 3truction page 24 X 2 No.	CONTINUE TO BOX BY THIS FORM IS COMPLETE
D Activity Parje 14	tie to new activities Electivity production Fig. 1995 source reduction quantity Page 26
Only 139 lbs of this waste were shipped during	CY95, and the balance 287 lbs was shipped in Jan 1996

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Sec. 1 A. Waste description. Instruction page 18	
Corrosive Sulfuric acid from Research & D	evelopment lab
D.O.O.2 N.A	C State natarogus waste code. Fage 19
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Sec. II A. Quantity generated in 1994 Instruction Page 21. Page 21. A. Quantity generated in 1995 Page 21.	C. UOM Page 21. 1
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In Activity Plane 14	the to new activities Electivity production Page 26 Page 26

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Tetrachloroethylene from Forensic Research	
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.9 7 1 1 System Type LM 1 1	Fage 20. 1 Page $\hat{z} = 0.2$
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	On-site process system type — Quantity treated, disposed, or recycled on site — Page 22. — in 1995
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1995 Hazardous Waste Report

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9 (P4 marardous waste code Page 19.	• • • • • • • • • • • • • • • • • • • •
	3 State nataropus waste code Fage 12
D.0.0.1 N.A.	
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9.7.1:1 System [A.3.7]	$\begin{bmatrix} age 20 \\ 1 \end{bmatrix}$ $\begin{bmatrix} age \hat{2} & 1 & 1 \\ 1 & 2 \end{bmatrix}$ $\begin{bmatrix} 2 \\ 1 \end{bmatrix}$
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35	sewer-POTW? Page 21.
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Quantity disposed includes the backlog from C	Y94
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1995 Harardoot Waste Report

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EPA tracardous waste code Page 19
D001 D018
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9.7.1:1 Type LM: 1
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Instruction Page 21. Page 21. Page 21. site dispose on site recycle on site or discharge to a seed-POTW? Page 21.
=: Yes (CONTINUE TO SYSTEM 1)
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A. Vias any of this waste snipped off-site in 1995 Tyes (CONTINUE TO BOX 8) Instruction page 22.
Site B EPA ID No. of facility waste was shipped to C System type shipped to D. Ottisce E. Total quantity shipped in 1895
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Silk I IB EPA ID No of facility was religible to 12 System two snipped to 12 Omitine (Fig. Total quantity shipped in 1995) Page 23 Fage 23 evaluating 1995 Page 23
Sec IV 4 Did new activities in 1995 result in minimization of this waste? Up this LONDANCE TO BUY 51 In Struction page 24 X A. This shall is continued.
Struction page 24 #2 No THIS FORM IS COMPLETE #3 No THIS FORM IS COMPLETE #4 No THIS FORM IS COMPLETE #5 Activity Page 24
Page 15
DO No.

Only 4373 lbs of this waste were shipped during CY95, and the balance 251 lbs was shipped in Jan 1996

Marine Corps Combat Development Command Quantico, Virginia 22134-5053 V.A. F. J. 7. 0 J. 0. 2. 4. 7. 2. 2

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1995 Hazardous Waste Repuis

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Sec. 1 A. Waste description Instruction page 18	
Chromium mask filters, field operations from	m communications officers school.
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9.7.1:11 Type LM1 1.1 LA:5.5	3 Point of measurement H. Form code Page 20. Page 20. B 3 1 0 2
<u> </u>	C. UOM Density Page 21. 1 0 this site do any of the following to this waste, treat or site, dispose on site, recycle on site, or discharge to a sewer-POTW? Page 21. 1 1 1 1 1 1 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
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Quantity disposed includes the backlog from C	Y94

Marine Corps Combat Development Command Quantico, Virginia 22134-5053 V A 1 1 7 0 0 2 4 7 2 2



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Sistem	G. Point of measurement IH. Formittee II. RCRA - radioactive mixed Page 20.
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1995 Hazardous Waste Report

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Instruction Pa	.6.3.0.0.2.6.6.0	C. UOM Density Page 21. 1 1 Ibs/gal = 2 sg ON-SITE PROCESS SYSTEM 2 On-site process system type Page 22.	C. Did this site do any of the following to this waste, treat of site. dispose on site, recycle on site, or dispharge to a sewer/POTW? Page 21. 2 1 Yes (CONTINUE TO SYSTEM 1) 2 No (SKIP TO SEC. III) Cuantity treated, disposed, or recycled on site in 1995
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t Activity Page 14	O Other effects Page 25		ction 1995 source reduction quantity Page 26
Only 66	lbs of this waste were shipped during	g CY95 & the balance 20	00 lbs was shipped in

Marine Corps Combat Development Command Quantico, Virginia 22134-5053 V.A. I. (1., 7., 0., 0., 2.4., 7., 2., 2.)



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1995 Hazardous Vraste Report

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O. SIC case Page 19. E. Origin code 1 Page 19 F. Source code Page 23. System Type LM111	3. Point of measurement H. For size I. RCRA - radioactive mixed Fage 20.
Sec. II A. Quantity generated in 1994 Instruction Page 21. B. Quantity generated in 1995 Page 21. ON-SITE PROCESS SYSTEM 1	C. UOM Page 21. 1 Density Page 21. 1 Ibs/gal = 2 sg ON-SITE PROCESS SYSTEM 2
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	G. Point of measurement H. Form occa. II. RCRA - radioactive mixed. Page 20. Page 20. Day 20.
Instruction Page 21. Page 21. Page 21.	C. UDM Density 2
On-site process system type Quantity treated, disposed, or recycled on site Page 22. In 1995	On-site process system type Guantity treated, disposed, or recycled on site in 1995
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1996 Hazardous Maste Report

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Sec 1 A Waste description instruction page 18 Corrosive alkali batteries from Military Con	nmunications training
D 0 0 2 N A N A N A	State navarcous waste code Fage 16
D. SIC code Page 19. E. Origin code 19 Page 19 F. Source code Page 20. System Type LM: 1 LM: LA:5.5	G. Point of measurement: IH. Form occa. II. RCRA - radioactive mixed. Fage 20. Page 32 0 9.
On-site process system type Guantity treated, disposed, or recycled on site	C. UDM Page 21. 1
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Page 23. N.C.D., [0, 0, 0, 6, 4, 8, 4, 5, 1] Site 1 (2 EPA 12 No. of facility waste was shipped to	C. System type shipped to 0. Citysite Page 23. Page 23. O 4 3 Page 23 1 C. System type shipped to 0. Citysite Page 23. D. System type shipped to 0. Citysite Page 23. E. Total quantity shipped in 1995 Page 23. E. Total quantity shipped in 1995 Page 23. E. Total quantity shipped in 1995 Page 23.
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1995 Hazardous Waste Regain

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Sec 1 A Waste description - Instruction page 18 Poisonous liquid, phenol, from Research & I	Development Lab
U 1 8 8 N A	N/A Point of measurement H. Form sizes I. RCRA - radioactive mixed Fage 23.
Instruction Page 21. Page 21. ON SITE PROCESS SYSTEM 1 Joinste process system type Quantity treated, disposed, or recycled on site	UDM Density age 21. 1 1 Stepose on site, recycle on site, or discharge to a sewer-POTW? Page 21. 2 Stepose on site, recycle on site, or discharge to a sewer-POTW? Page 21. 2 Yes (CONTINUE TO SYSTEM 1) Stepose on site, recycle on site, or discharge to a sewer-POTW? Page 21. 2 Yes (CONTINUE TO SYSTEM 1) Stepose on site, recycle on site, or discharge to a sewer-POTW? Page 21. 3 Yes (CONTINUE TO SYSTEM 1) Stepose on site, recycle on site, or discharge to a sewer-POTW? Page 21. 3 Yes (CONTINUE TO SYSTEM 1) Stepose on site, recycle on site, or discharge to a sewer-POTW? Page 21. 3 Yes (CONTINUE TO SYSTEM 1) Stepose on site, recycle on site, or discharge to a sewer-POTW? Page 21.
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Page 72	System (vos shipped to 2) Christe El Total que titly shipped in 1995 per 23
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1995 Hazardous Waste Report



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Marine Corps Combat Development Command
Quantico, Virginia 22134-5053

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Marine Corps Combat Development Command Quantico, Virginia 22134-5053 V.A. 1 1, 7, 0, 0, 2, 4, 7, 2, 2



U.S. ENVIRONMENTAL PROTECTION AGENCY

1995 Hazardous Viaste Report



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Marine Corps Combat Development Command Quantico, Virginia 22134-5053

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U.S. ENVIRONMENTAL PROTECTION AGENCY

1995 Hazardous Waste Report

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Marine Corps Combat Development Command Quantico, Virginia 22134-5053

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US ENVIRONMENTAL PROTECTION AGENCY

1995 Hazardous Waste Report

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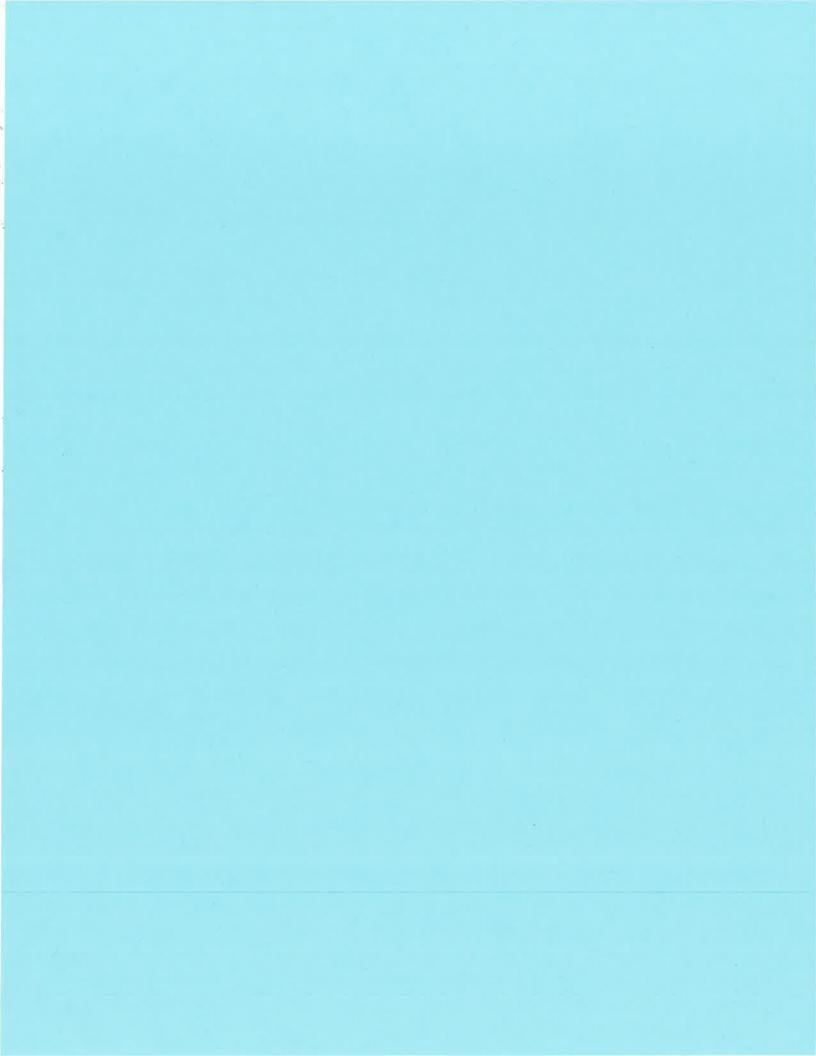
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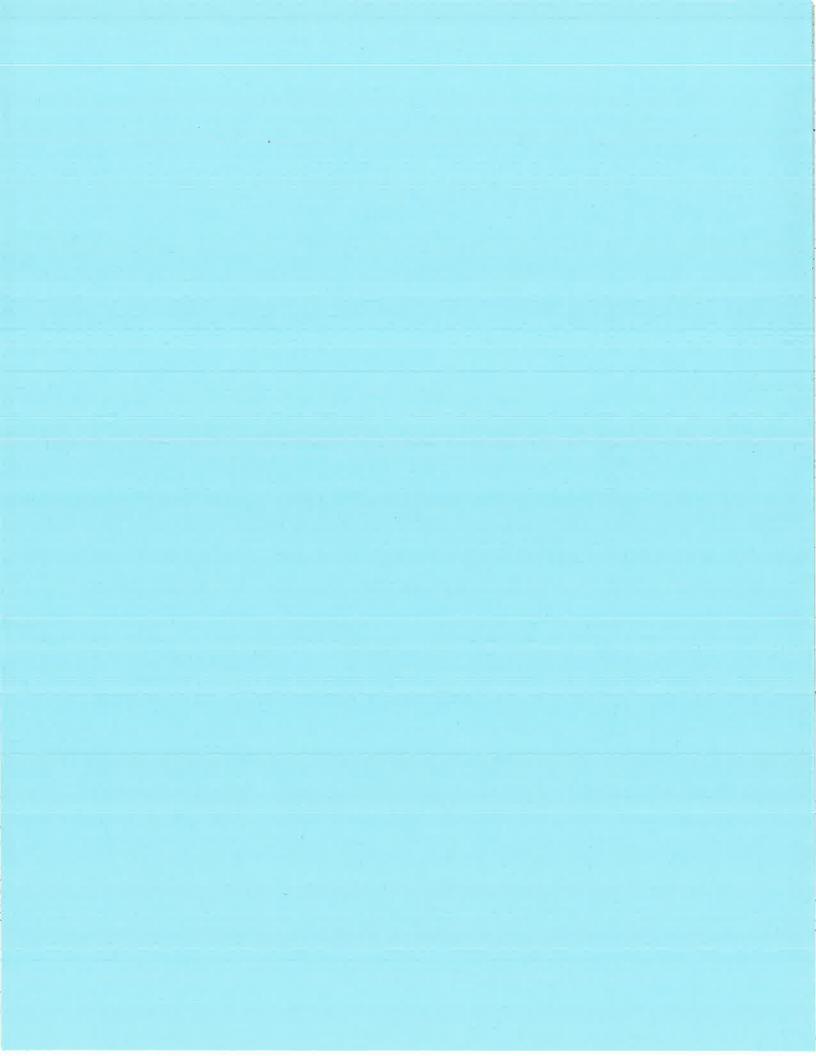
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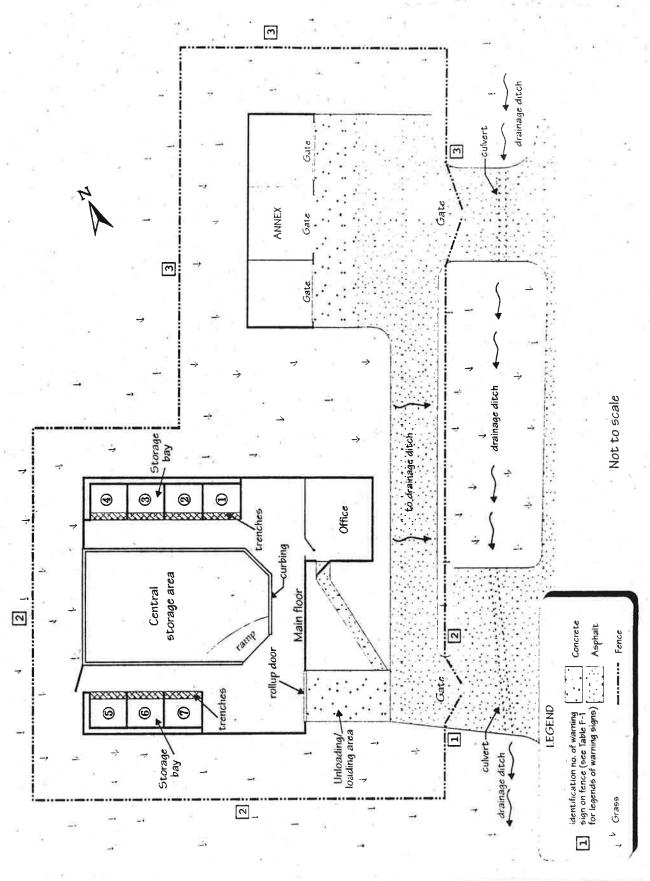
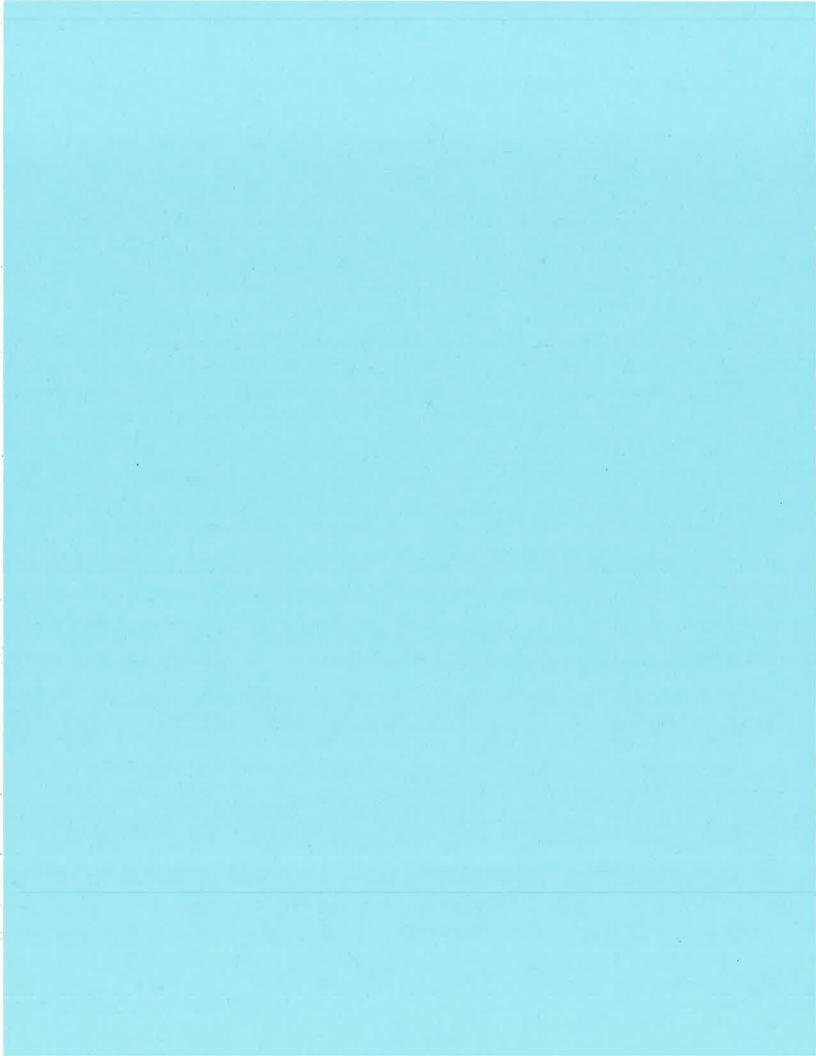
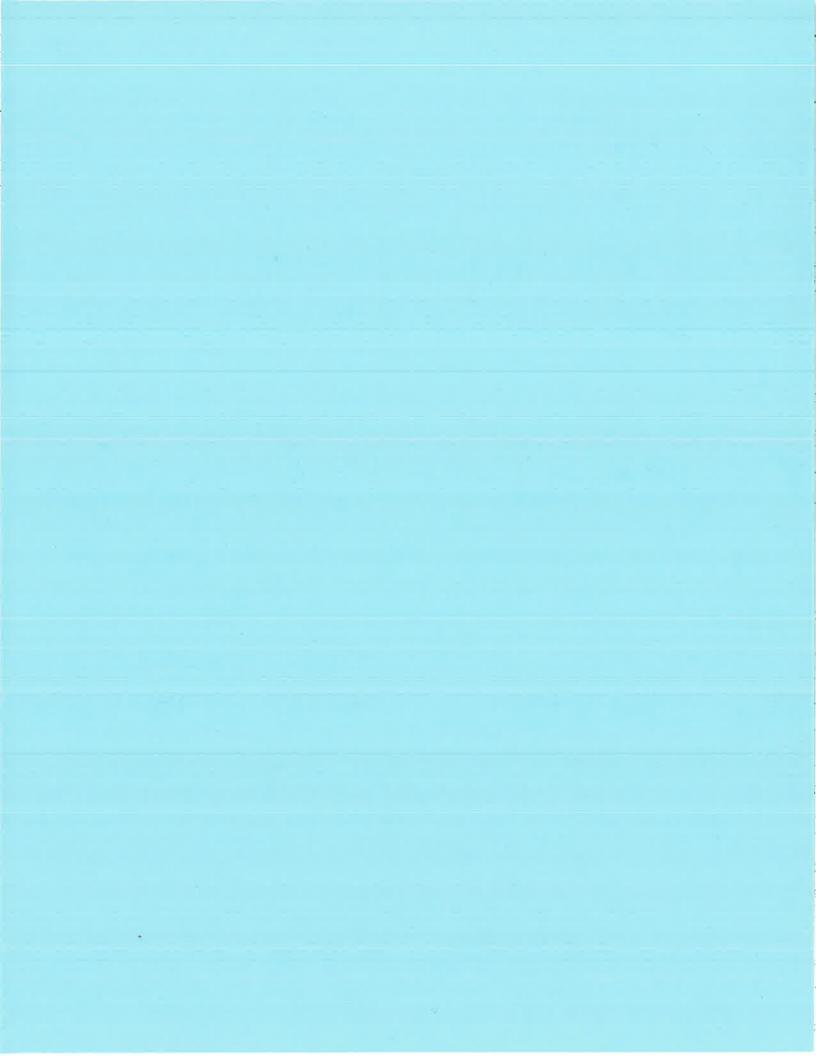


Figure F-1. Security Fence Around the Hazardous Waste Storage Facility (Building 27401) and Adjacent Annex (Building 27401A)

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RESPONSE TO FIRST COMPLETENESS REVIEW COMMENTS FOR THE HAZARDOUS WASTE STORAGE FACILITY AT MARINE CORPS BASE, QUANTICO, VIRGINIA EPA ID NO. VA1170024722

The following provides responses to the Department of Environmental Quality's (DEQ's) completeness review comments on the Part B permit application for the Hazardous Waste Storage Facility (HWSF). Each comment from the DEQ letter dated December 5, 1996 is provided verbatim and is directly followed by a response (indicated in bold).

A. PART A APPLICATION

The Part A Application appears to be complete if all of the appropriate waste streams are included. See section C-1 below for the comment (and accompanying guidance) describing the number of known waste streams.

Response: Marine Corps Base (MCB), Quantico and its tenant organizations generate a wide range of waste types, some of which are generated routinely while others are generated on an infrequent or one-time basis. Thus, the Part A addresses the range of waste codes anticipated to be encountered during the HWSF operating life. In addition, the Part A has been updated to use the most current forms and provide the most current information for the HWSF. Section C-1 has been updated and revised accordingly.

B. FACILITY DESCRIPTION

General Comment: the following maps received during my site visit at the facility on November 5, 1996, are unreadable: A-1, A-2, A-3, and A-4. Legible maps bearing the previous designations must be supplied to this office.

Response: Maps A-1, A-2, A-3, and A-4 have been replaced as part of the overall update of the permit application. Engineering drawings depicting HWSF details are provided in Appendix D-1 of the permit application.

Note that Section B has been updated and reorganized to follow the checklist. Extraneous information has been deleted and new figures have been added necessitating renumbering the figures.

B-2 Topographical Map

The topographical (Topo) map, Figure B-4, does not appear to show a location of the Hazardous Waste Management Unit (HWMU) and may not depict the required 1000 foot radius inclusive

of topographical features surrounding the HWMU. In addition, the Topo map, dated 1986, must be updated to include all required current features as detailed in the canned comments.

Response: Section B-2 has been revised to include an additional topographic map from the United States Geological Survey as well as references to engineering drawings in Appendix D-1 with nearby topographic detail. Together, these topographic maps cover the area within 1,000 feet of the HWSF and are the only topographic maps available. Supplemental maps are provided to address features not shown on the topographic maps in accordance with VHWMR Section 11.5.I.

B-3 Location Information

Location information and, specifically, the exact latitude and longitude of the HWMU is required to be submitted with the Part B Application.

Response: The latitude and longitude for the HWSF have been added to Section B-3, which has been revised according to the guidance provided by the canned comments.

B-3b Floodplain Standard

The 100-year floodplain area as required by the VHWMR, § 11.5.C.1 and apparently intended to be submitted on Figure B-2, *Hazardous Waste Storage Facility Flood Plain* is not delineated on Figure B-2.

Response: The referenced figure has been replaced by the Flood Insurance Rate Map (Figure B-11) for the HWSF and surrounding area. As shown on this map, the HWSF is in Zone C, which is outside the 100-year floodplain.

B-4 Traffic Information

The Traffic Information, apparently submitted as Figure B-7, is unreadable. The Traffic Information must be submitted as detailed in the corresponding section of the canned comments.

Response: The traffic information has been revised and updated as requested. The legibility of the old Figure B-7 (now Figure B-13) has been improved to the extent possible.

C. WASTE CHARACTERISTICS

C-1 Chemical and Physical Analyses

In general, this section is vague and inadequate; see the canned comments and the regulatory citations associated with the canned comments, and the Waste Analyses Plan sections

(Attachments I) of the two approved permits that I supplied to you for Chemical and Physical Analyses guidance.

During my site visit to the container storage building on November 5, 1996, I noted that the Waste Profile Sheets at the facility described approximately 50-60 hazardous waste streams that are stored at the facility. In addition, you indicated that lab packs containing hazardous waste and nonhazardous waste streams are stored at the proposed permitted hazardous waste storage area. The lab packs and nonhazardous waste streams must be described fully in accordance with the VHWMR and EPA guidance as these waste streams are required to be included in the permit if storage of them is desired in the proposed permitted hazardous waste storage area. The sizing of the container storage area cells or bays and the containment system are both dependent on the maximum volumes of the waste streams that are intended to be stored in various sections of the proposed permitted facility. Sizing of the waste storage compartments and the waste containment system is an important issue from an engineering prospective [sic]. In addition, capatibility [sic] of waste streams including the lab packs and the non-hazardous wastes, stored together in close proximity is a critical safety and environmental issue. The sizing requirements of the storage areas proper in addition to the containment system and the required compatibility of waste containers stored in adjacent areas are mandated by the VHWMR (11.5.K.1.a.3, 11.5.K.1.b., 11.5.K.1.c., 11.5.B.9.), and necessitated by EPA guidance documents. The documents cited in the previous sentence include: Facilities Storing Hazardous Waste In Containers - Guidance For Permit Writers, Fred Hart and Associates, Incorporated, Washington, D.C., NTIS, 1982 (Enclosure I); Waste Analysis at Facilities that Generate, Treat, Store, and Dispose of Hazardous Wastes - A Guidance Manual, U.S. EPA, Solid Waste and Emergency Response, April 1994; RCRA Orientation and Basic Permit Writer's Course Training Manual, Storage in Containers, EPA, Region III, Richmond, Virginia, 1995 (Enclosure II); Proposed Guide for Estimating the Compatibility of Selected Hazardous Wastes Based on Binary Chemical Reactions, D-34 Proposal P 168, American Society of Testing and Materials, Philadelphia Pa., March 1986 (Enclosure III); and A Method for Determining the Compatibility of Hazardous Wastes, Philadelphia, EPA-600/2-80-076, Municipal Environmental Research Laboratory, Office of Research and Development, U.S. EPA, Cincinnati, Ohio, April 1980 (Enclosure IV).

Response: Section C-1 of the permit application has been revised to address the types of waste anticipated to be stored at the HWSF. In addition to hazardous wastes, nonhazardous wastes, hazardous materials, asbestos-containing materials, PCBs, and PCB-contaminated materials may also be stored. Labpacks may be created at the HWSF by the shipping contractor prior to shipment offsite. This consists of consolidating smaller containers of waste already in storage. This activity typically occurs about one week before shipment offsite. Thus, labpacks may be in storage for a short period of time, but they are typically generated after waste has already been received and stored at the HWSF. Labpacks may also be received at the HWSF from generator areas. Labpacking and waste consolidation activities are conducted according to VHWMR requirements. Only compatible waste items and sorbent materials are placed within the same drum, the wastes are compatible with the larger container in which they are placed, and characterization information is maintained on wastes that are labpacked or consolidated.

Compatibility determinations for labpacking purposes and for storage of all containers are made using the waste characterization information provided by the generators, VHWMR Appendix 10.5, and A Method for Determining the Compatibility of Hazardous Wastes, EPA-600/2/80-076.

The maximum waste storage volume for the HWSF is established in the Part A. Maximum storage volumes for purposes of determining secondary containment capacity in specific HWSF areas are addressed in Section D-1a(2) of the permit application. Note that MCB, Quantico is not proposing maximum waste volume limits by material type for each storage bay within the HWSF. The storage bays are designed to be flexible to accommodate the variations in waste generation typical to this type of installation. Thus, the material stored in a given storage bay may vary over time. However, at any one time, all the waste stored in a bay is compatible. Incompatible wastes are segregated by placement in different storage bays, in different rows in the central storage area, or on secondary containment pallets. Compatibility determinations are made as noted above. This is described in more detail in Sections D-1a(2) and F-5d of the permit application, and in Section 2 of the Waste Analysis Plan for the Hazardous Waste Storage Facility provided in Appendix C-1 of the permit application.

C-1a Containerized Waste

A demonstration must be made and submitted with the revisions to the Part B Application that each individual waste stream proposed for storage at the facility to be permitted is compatible with the appropriate container construction materials, and not compatible [sic] with the other wastes to be stored.

Response: Section C-1a has been revised to address waste compatibility with containers used for storage.

C-2 Waste analysis plan

See Section C-1, Chemical and Physical Analyses.

Response: The waste analysis plan has been revised and is provided in Appendix C-1 of the permit application. Section C-2 of the permit application provides a cross-reference of the waste analysis requirements to the location of the information in the waste analysis plan.

C-2a Parameters and rationale

See Section C-1, Chemical and Physical Analyses.

Response: See response above for Section C-2.

C-2b Test methods

See Section C-1, Chemical and Physical Analyses.

Response: See response above for Section C-2.

C-2c Sampling Methods

See Section C-1, Chemical and Physical Analyses.

Response: See response above for Section C-2.

C-2d Frequency of Analyses

See Section C-1, Chemical and Physical Analyses.

Response: See response above for Section C-2.

C-2e Additional requirements for wastes generated offsite

See Section C-1, Chemical and Physical Analyses.

Response: See response above for Section C-2.

C-2f Additional requirements for ignitable, reactive, or incompatible wastes

See Section C-1, Chemical and Physical Analyses.

Response: See response above for Section C-2.

D. PROCESS INFORMATION

GENERAL COMMENT

Section D of the Application describes two different Buildings that are apparently proposed for permitted storage of hazardous waste. During my visit to the Quantico Marine Base on November 5, 1986, I got the impression that only one hazardous waste container storage building was proposed for inclusion into a permit to be developed. Quantico must ensure that only the hazardous waste storage areas proposed for permitting are described in the Part B Application treatise. Please include in your response a clarification of which units have interim status, which unit(s) is to be permitted, and the status of any interim status units for which a permit is being sought.

Response: The HWSF (Building 27401) has interim status and a permit is being sought for this unit to store hazardous waste in containers. Building 2141, the old ammunition bunker, was included in the original application as a separate storage unit. Building 2141 had interim status and has since been closed in accordance with VHWMR requirements as documented in a letter dated March 28, 1995 from Mr. Harry H. Kelso, Director, Enforcement, Policy, and Public Affairs, Virginia Department of Environmental Quality, to Mr. Ralph Phipps, Environmental Section, Marine Corps Base, Quantico.

This permit application addresses only the HWSF. Section D has been reorganized and the discussion expanded to follow the cannel comments checklist and provide the updated information requested.

D-1a(1) Description of Containers

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWR [sic] requirements are stated in the canned comments.

Response: Section D-1a(1) has been added. The information has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist.

D-1a(2) Container Management Practices

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWR [sic] requirements are stated in the canned comments.

Response: Section D-1a(2) has been added. The information has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist.

D-1a(3) Secondary Containment System Design and Operation

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWR [sic] requirements are stated in the canned comments.

Response: Section D-1a(3) has been added. The information has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist.

D-1a(3)(a) Requirement of the Base or Liner to Contain Liquids

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWR [sic] requirements are stated in the canned comments.

Response: Section D-1a(3)(a) has been added. The information has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist.

D-1a(3)(b) Containment System Drainage

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWR [sic] requirements are stated in the canned comments.

Response: Section D-1a(3)(b) has been added. The information has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist.

D-1a(3)(c) Containment System Capacity

The supplied information regarding the containment system appears to be out of date. For instance, PCB storage areas were described in the Application, but none were noted during the writer's visit to the facility on November 5, 1996.

Therefore, because of the dated information concerning the containment system that was supplied, an up-to-date description of the containment system must be provided in the Part B Application in accordance with the canned comments, and the submitted information must comply with the VHWMR requirements as stated in the canned comments.

Response: Section D-1a(3)(c) has been added. The information has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist. The wastes generated at MCB, Quantico are variable from year-to-year. Thus, wastes present one year may not be present in another year. PCBs and PCB-contaminated materials may be stored only in the central storage area of the HWSF, which has been designed in accordance with 40 CFR 761 requirements. Since the types of waste in storage at any one time will vary, there may not always be PCB waste in storage, and other wastes or hazardous materials may be stored in the central storage area.

D-1a(3)(d) Control of Run-On

No specific information regarding run-on control could be located in the Part B Application submitted by the facility.

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWR [sic] requirements are stated in the canned comments.

Response: Section D-1a(3)(d) has been added. The information has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist.

D-1a(3)(e) Removal of Liquids From the Containment System

No specific information regarding removal of liquids from the containment facility could be located in the Part B Application submitted by the facility.

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWR [sic] requirements are stated in the canned comments.

Response: Section D-1a(3)(e) has been added. The information has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist.

D-1b Containers Without Free Liquids

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWR [sic] requirements are stated in the canned comments.

Response: Section D-1b has been added. All containers stored at the HWSF will be managed under the same set of procedures regardless of free liquids content. The container management practices are those set forth in Section D-1a of the permit application.

D-1b(1) Test for Free Liquids

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWR [sic] requirements are stated in the canned comments.

Response: See Section D-1b response.

D-1b(2) Description of Containers

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWR [sic] requirements are stated in the canned comments.

Response: See Section D-1b response.

D-1b(3) Container Management Practices

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWR [sic] requirements are stated in the canned comments.

Response: See Section D-1b response.

D-1b(4) Container Storage Area Drainage

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWR [sic] requirements are stated in the canned comments.

Response: See Section D-1b response.

F. PROCEDURES TO PREVENT HAZARDS

F-1 Security

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWMR requirements are stated in the canned comments.

Response: Section F has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist.

F-1a Security Procedures and Equipment

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWMR requirements are stated in the canned comments.

Response: Section F-1a has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist.

F-1a(1) 24 Hour Surveillance System

Quantico must check to ensure that the description of the 24 Hour Surveillance System on pages F-1 and F-2 of the Part B Application is current. The 24 hour Surveillance System description supplied in the Part B Application appears to have been submitted in approximately 1987 as was most of the Part B Application presently on file at DEQ.

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWMR requirements are stated in the canned comments.

Response: The information has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist. Access to the HWSF is controlled by a barrier and a means to prevent entry rather than a 24-hour surveillance system.

F-1a(2)a Barrier

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWMR requirements are stated in the canned comments.

Response: The information has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist.

F-1a(2)b Means to Control Entry

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWMR requirements are stated in the canned comments.

Response: The information has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist.

F-1a(3) Warning Signs

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWMR requirements are stated in the canned comments.

Response: The information has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist.

F-1b Waiver

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWMR requirements are stated in the canned comments.

Response: No waiver of the security procedures and equipment requirements is requested.

F-1b(1) Injury to Intruder

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWMR requirements are stated in the canned comments.

Response: See Section F-1b response.

F-1b(2) Violation Caused by Intruder

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWMR requirements are stated in the canned comments.

Response: See Section F-1b response.

F-2 Inspection Schedule

The Inspection Schedule, Table F-1, on page F-6 and the Inspection Form on pages F-8 through F-10 must be checked and updated as required by Quantico to ensure that they accurately reflect actual conditions to be included in the permit to issued for the hazardous waste storage facility. Two good examples of Inspection Forms and Inspection Schedules may be found within the two hazardous waste storage permits for the two Du Pont Plants that were left with you during my site visit to the facility on November 5, 1996.

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWMR requirements are stated in the canned comments.

Response: Section F-2 has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist. A revised inspection schedule and new weekly, monthly, and quarterly inspection forms have been added to this section as Figures F-2 through F-5.

F-2a General Inspection Requirements

See the comments in the Inspection Schedule, § F-2, above.

Response: See Section F-2 response.

F-2a(1) Types of Problems

See the comments in the Inspection Schedule, § F-2, above.

Response: See Section F-2 response.

F-2a(2) Frequency of Inspections

See the comments in the Inspection Schedule, § F-2, above.

Response: See Section F-2 response.

F-2b(1) Container Inspection

See the comments in the Inspection Schedule, § F-2, above.

Response: See Section F-2 response.

F-3 Waiver of Documentation of Preparedness and Prevention Requirements

The information provided in the Part B Application on page F-11 indicates that Quantico did not wish, in 1987 or thereabouts, to request a waiver of the documentation of the Preparedness and Prevention Requirements.

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with VHWMR. The applicable VHWMR requirements are stated in the canned comments.

Response: No waiver of the documentation of the preparedness and prevention requirements is requested. Section F-3 has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist.

F-3(a) Equipment Requirements

See the comments in the Waiver of Preparedness and Prevention Requirements, § F-3, above.

Response: See Section F-3 response.

F-3(a)(1) Internal Communications

See the comments in the Waiver of Preparedness and Prevention Requirements, § F-3, above.

Response: See Section F-3 response.

F-3(a)(2) External Communications

See the comments in the Waiver of Preparedness and Prevention Requirements, § F-3, above.

Response: See Section F-3 response.

F-3(a)(3) Emergency Equipment

See the comments in the Waiver of Preparedness and Prevention Requirements, § F-3, above.

Response: See Section F-3 response.

F-3(a)(4) Water for Fire Control

See the comments in the Waiver of Preparedness and Prevention Requirements, § F-3, above.

Response: See Section F-3 response.

F-3(b) Aisle Space Control

See the comments in the Waiver of Preparedness and Prevention Requirements, § F-3, above.

Response: See Section F-3 response.

F-4 Preventative Procedures, Structure, and Equipment

Preventative Procedures, Structures, and Equipment are discussed on pages F-11, F-12, and F-13 of the Part B Application. This section of the application was probably prepared in 1987 or thereabouts and may not be reflective of the present conditions at the facility as they relate to pertinent information to be included in the hazardous waste storage permit currently under consideration. It was noted during my November 5, 1996, site visit to the facility that spill control and various safety related equipment appeared to be adequate in regard to quality and quantity of the equipment observed.

Up-to-date information must be provided in the Part B Application in accordance with the requirements specified in the canned comments, and the submitted information must comply with the VHWMR. The applicable VHWMR requirements are stated in the canned comments.

Response: Section F-4 has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist.

F-4(a) Unloading Operations

See the comments in the Preventative Procedures, Structures, and Equipment, § F-4, above.

Response: See Section F-4 response.

F-4(b) Run-off

See the comments in the Preventative Procedures, Structures, and Equipment, § F-4, above.

Response: See Section F-4 response.

F-4(c) Water Supplies

See the comments in the Preventative Procedures, Structures, and Equipment, § F-4, above.

Response: See Section F-4 response.

F-4(d) Equipment and Power Failure

See the comments in the Preventative Procedures, Structures, and Equipment, § F-4, above.

Response: See Section F-4 response.

F-4(e) Personnel Protective Equipment

See the comments in the Preventative Procedures, Structures, and Equipment, § F-4, above.

Response: See Section F-4 response.

F-5 Prevention of Reaction of Ignitable, Reactive, and Incompatible Wastes

Ignitable, reactive and incompatible waste streams, both solid and hazardous must be fully described and identified, and the current information regarding characterization of each waste stream is required before any hazardous waste storage permit can be issued for Quantico. The guidance stated in § C-1, Chemical and Physical Analyses, concerning the requirements for a detailed description of each waste stream stored in the facility proposed for permitting applies.

Response: The requested waste stream characterization information is provided in Section C-1 of the permit application. As described in Section D-1a(2), Natural Resources and Environmental Affairs Branch (NREAB) personnel prepare a waste profile

for each waste stream to be stored at the HWSF. Waste characterization is conducted in accordance with the <u>Waste Analysis Plan for the Hazardous Waste Storage Facility</u> provided in Appendix C-1. Note that waste streams received may vary, but in all cases, no hazardous wastes will be accepted for storage unless the waste code for the material to be stored at the HWSF is one of the applicable waste codes present on the Part A application.

Compatibility of each waste stream, solid and hazardous, must be demonstrated with all other waste streams to be stored in any given bay, cell, compartment, or any other designated storage area proposed for inclusion in the hazardous waste storage permit. The methodology contained within the ASTM method D-34 Proposal P 168 <u>must be utilized</u> to demonstrate the compatibility of each waste stream with the other waste streams.

The ASTM method D-34 Proposal P 168 is fully described in the Proposed Guide for Estimating the Compatibility of Selected Hazardous Wastes Based on Binary Chemical Reactions, D-34 Proposal P 168, American Society of Testing and Materials, Philadelphia Pa., March 1986, (Enclosure III) and A Method for Determining the Compatibility of Hazardous Wastes, Philadelphia, EPA-600/2-80-076, Municipal Environmental Research Laboratory, Office of Research and Development, U.S. EPA, Cincinnati, Ohio, April 1980 (Enclosure IV).

Response: Compatibility determinations are made using VHWMR Appendix 10.5 and A Method for Determining the Compatibility of Hazardous Wastes, EPA-600/2-80-076. Section D-1a(2) of the permit application describes how incompatible wastes are segregated within the HWSF. MCB, Quantico does not intend to dedicate specific storage bays to specific waste streams because the quantity of specific waste streams can vary. Thus, over time, a single storage bay may be used for different types of waste, but at any one time, all wastes within a single storage bay will be compatible. A sign posted at each storage bay identifies the type of waste stored. The storage bays, with walls on three sides, provide physical separation of wastes. In the central storage area, incompatible wastes will be separated by at least one row of compatible waste.

Handling practices must be summarized in detail for ignitable, reactive, and incompatible wastes and any materials or other wastes they may potentially come into contact with inside the perimeter of the proposed permitted hazardous waste storage area.

Response: The information provided on handling practices for ignitable, reactive, and incompatible wastes has been updated and expanded to address all the requirements in the VHWMR and the canned comments checklist.

F-5(a) Precautions to Prevent Ignition or Reaction of Ignitable or Reactive Wastes

See § F-5, Prevention of Reaction of Ignitable, Reactive, and Incompatible Wastes, for requirements regarding this section.

Response: See Section F-5 response.

F-5(b) General Precautions for Handling Ignitable or Reactive Waste and Mixing of Incompatible Waste

See § F-5, Prevention of Reaction of Ignitable, Reactive, and Incompatible Wastes, for requirements regarding this section.

Response: See Section F-5 response.

F-5(c) Management of Ignitable or Reactive Wastes in Containers

See § F-5, Prevention of Reaction of Ignitable, Reactive, and Incompatible Wastes, for requirements regarding this section.

Response: See Section F-5 response.

F-5(d) Management of Incompatible Wastes in Containers

See § F-5, Prevention of Reaction of Ignitable, Reactive, and Incompatible Wastes, for requirements regarding this section.

Response: See Section F-5 response.

G. CONTINGENCY PLAN

G-1 General Information

Complete

G-2 Emergency Coordinators

Complete

G-3 Implementation

Complete

G-4 Emergency Actions

Complete

G-4(a) Notification

Complete

G-4(b) Identification of Hazardous Materials

Complete

G-4(c) Assessment

Complete

G-4(d) Control Procedures

Complete

G-4(e) Prevention of Recurrence or Spread of Fires, Explosions or Releases

Complete

G-4(f) Storage and Treatment of Released Material

Complete

G-4(g) Incompatible Waste

The required section regarding incompatible waste does not appear to be contained within the contingency plan dated December 5, 1995, that was submitted with the Part B Application package. This information must be submitted to DEQ for review and approval.

Response: The requested information has been added as a new Section 5.c in the Contingency Plan, which is provided as Appendix G-1 to this permit application.

G-4(h) Post-Emergency Equipment Maintenance

Complete

G-4(i) Container Spills and Leakage

Complete

G-5 Emergency Equipment

Complete

G-6 Coordination Agreements

The required section regarding coordination agreements does not appear to be contained within the contingency plan dated December 5, 1995, that was submitted with the Part B Application package. This information must be submitted to DEQ for require and approval.

Response: The requested information has been added to Section 1.e in the Contingency Plan, which is provided as Appendix G-1 to this permit application. Copies of the Coordination Agreements are provided in Appendix G-2.

G-7 Evacuation Plan

Complete

G-8 Required Reports

Complete

H. PERSONNEL TRAINING

Response: Section H and its appendices have been updated to reflect current training requirements, courses, and job positions. The information also has been reorganized to follow the checklist.

H-1 Outline of the Training Program

Complete

H-1(a) Job Title/Job Description

Complete

H-1(b) Training Content, Frequency, and Techniques

Complete

H-1(c) Training Director

Complete

H-1(d) Relevance to Training to Job Description

Complete

H-1(e) Training for Emergency Response

This section must be resubmitted to include the required information listed in the canned comments to demonstrate that facility personnel are able to respond effectively to emergencies and are familiar with emergency procedures, emergency requirement, and emergency systems.

Response: The requested information is provided in a new Section H-1e in the permit application.

H-2 Implementation of the Training Program

Complete

I. CLOSURE PLANS, POST-CLOSURE PLANS AND FINANCIAL REQUIREMENTS

I-1 Closure Plans

The closure plan that was submitted describes the closure of container storage bunkers (Buildings 2191, 2141, and 2142) as well as the hazardous waste container storage building that I believe is proposed for inclusion in the hazardous waste storage permit under consideration. The closure plan portion of the Part B Application must only address those hazardous waste container storage units that are proposed for inclusion in the permit to be issued by DEQ.

In general, the closure plan that was submitted in 1987 does not comply with current technical and regulatory standards. Examples of recently approved hazardous waste container storage closure plans that meet the required technical and regulatory standards are available from DEQ for perusal by Quantico Marine Base. The closure plans contained within the two Du Pont permits that I gave to Quantico for guidance are fairly recent and may be used for guidance in the development of a closure plan meeting the current regulatory and technical requirements.

Response: The HWSF (Building 27401) is the only subject of this permit application. A revised closure plan addressing only the HWSF is provided as Appendix I-1 in the Part B permit application. Section I now provides only general introductory information and a table that cross-references VHWMR requirements with the location of the required information in the HWSF Closure Plan.

I-1(a) Closure Performance Standard

See § I-1, Closure Plans, Post-Closure Plans and Financial Requirements, for requirements regarding this section.

Response: See Section I-1 response.

I-1(b) Partial Closure and Final Closure Activities

See § I-1, Closure Plans, Post-Closure Plans and Financial Requirements, for requirements regarding this section.

Response: See Section I-1 response.

I-1(c) Maximum Waste Inventory

See § I-1, Closure Plans, Post-Closure Plans and Financial Requirements, for requirements regarding this section.

Response: See Section I-1 response.

I-1(d) Schedule for Closure

See § I-1, Closure Plans, Post-Closure Plans and Financial Requirements, for requirements regarding this section.

Response: See Section I-1 response.

I-1(d)(1) Time Allowed for Closure

See § Î-1, Closure Plans, Post-Closure Plans and Financial Requirements, for requirements regarding this section.

Response: See Section I-1 response.

I-1(d)(1)(a) Extension of Closure Time

See § I-1, Closure Plans, Post-Closure Plans and Financial Requirements, for requirements regarding this section.

Response: See Section I-1 response.

I-1(e) Closure Procedures

See § I-1, Closure Plans, Post-Closure Plans and Financial Requirements, for requirements regarding this section.

Response: See Section I-1 response.

I-1(e)(1) Inventory Removal

See § I-1, Closure Plans, Post-Closure Plans and Financial Requirements, for requirements regarding this section.

Response: See Section I-1 response.

I-1(e)(2) Disposal or Decontamination of Equipment, Structures and Soils

See § I-1, Closure Plans, Post-Closure Plans and Financial Requirements, for requirements regarding this section.

Response: See Section I-1 response.

I-1(e)(4) Closure of Containers

See § I-1, Closure Plans, Post-Closure Plans and Financial Requirements, for requirements regarding this section.

Response: See Section I-1 response.

J. CORRECTIVE ACTION FOR SOLID WASTE MANAGEMENT UNITS

This required section was apparently not included with the Part B Application that is undergoing review by DEQ. Enclosure V is the EPA canned comments guidance for Corrective Action for Solid Waste Management units at the Quantico facility. The sections addressing Corrective Action for Solid Waste Management Units in the two Du Pont Permits that I left with you during my November 5, 1996, visit to Quantico may also serve as guidance for developing the required information for this section.

Response: Solid Waste Management Unit (SWMU) identification and resolution has been an ongoing activity since 1988 when a RCRA Facility Assessment (RFA) was performed by contractors for the USEPA. Since the associated documentation has already been provided to both the Virginia Department of Environmental Quality and USEPA Region III, Section J provides only a brief history of the SWMU documentation and ongoing activities. Please refer to the appropriate documentation listed in Section J for additional details.

J-1 Solid Waste Management Units

See § J, Corrective Action for Solid Waste Management Units, for requirements regarding this section.

Response: See Section J response.

J-1(a) Characterize the Solid Waste Management Unit

See § J, Corrective Action for Solid Waste Management Units, for requirements regarding this section.

Response: See Section J response.

J-1(b) No Solid Waste Management Units

See § J, Corrective Action for Solid Waste Management Units, for requirements regarding this section.

Response: See Section J response.

J-2 Releases

See § J, Corrective Action for Solid Waste Management Units, for requirements regarding this section.

Response: See Section J response.

J-2(a) Characterize Releases

See § J, Corrective Action for Solid Waste Management Units, for requirements regarding this section.

Response: See Section J response.

J-2(b) No Releases

See § J, Corrective Action for Solid Waste Management Units, for requirements regarding this section.

Response: See Section J response.

K. OTHER FEDERAL LAWS

This section appears to meet the criteria for being complete, however it was submitted in 1987 and is out of date. The information regarding other Federal laws must be resubmitted to DEQ for review and must reflect current conditions at the Marine Base at Quantico.

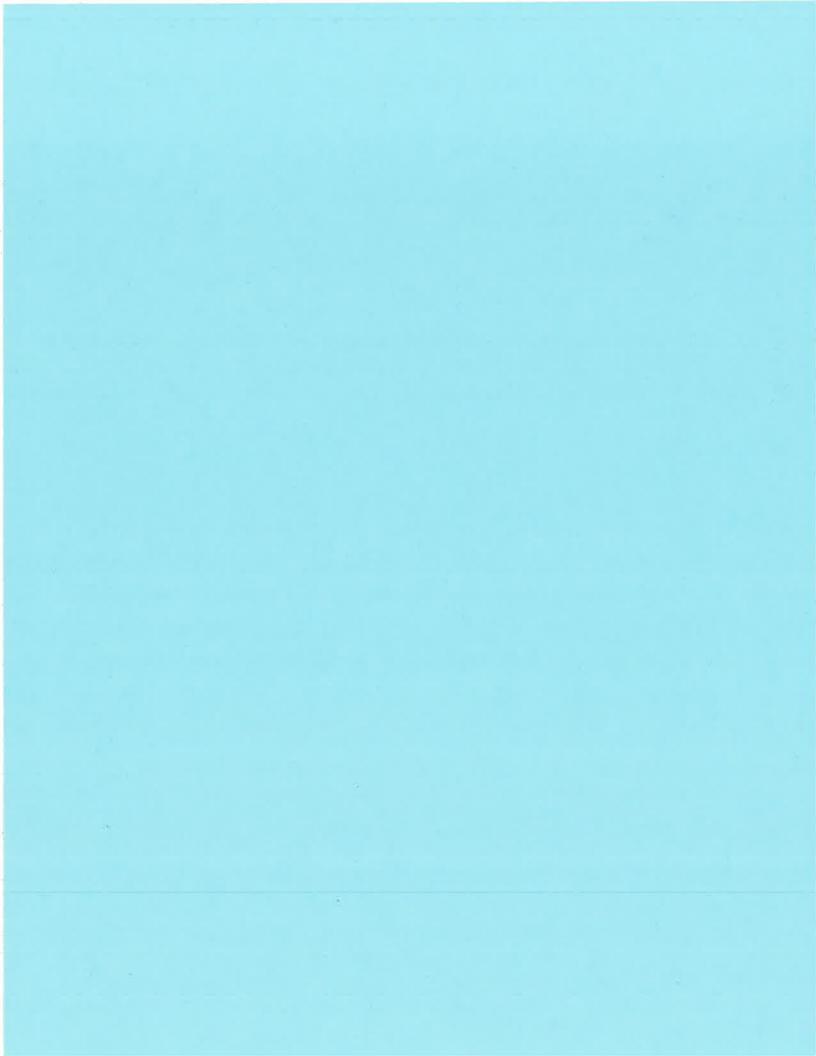
Response: Section K has been updated and extraneous information has been deleted.

L. PART B CERTIFICATION

The Part B Application Certification appears to be missing from the Part B Application and the accompanying documentation. This Certification must be submitted to DEQ for review and approval.

Response: The Part B Certification has been added as Section L of the permit application.

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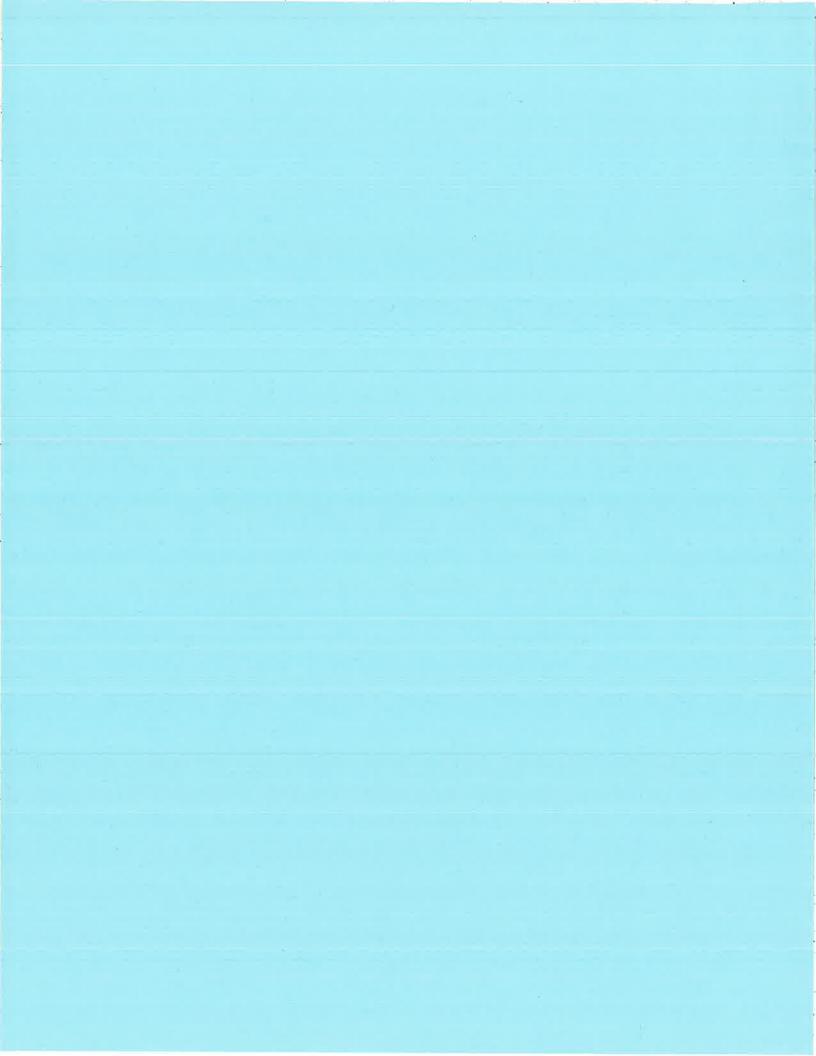


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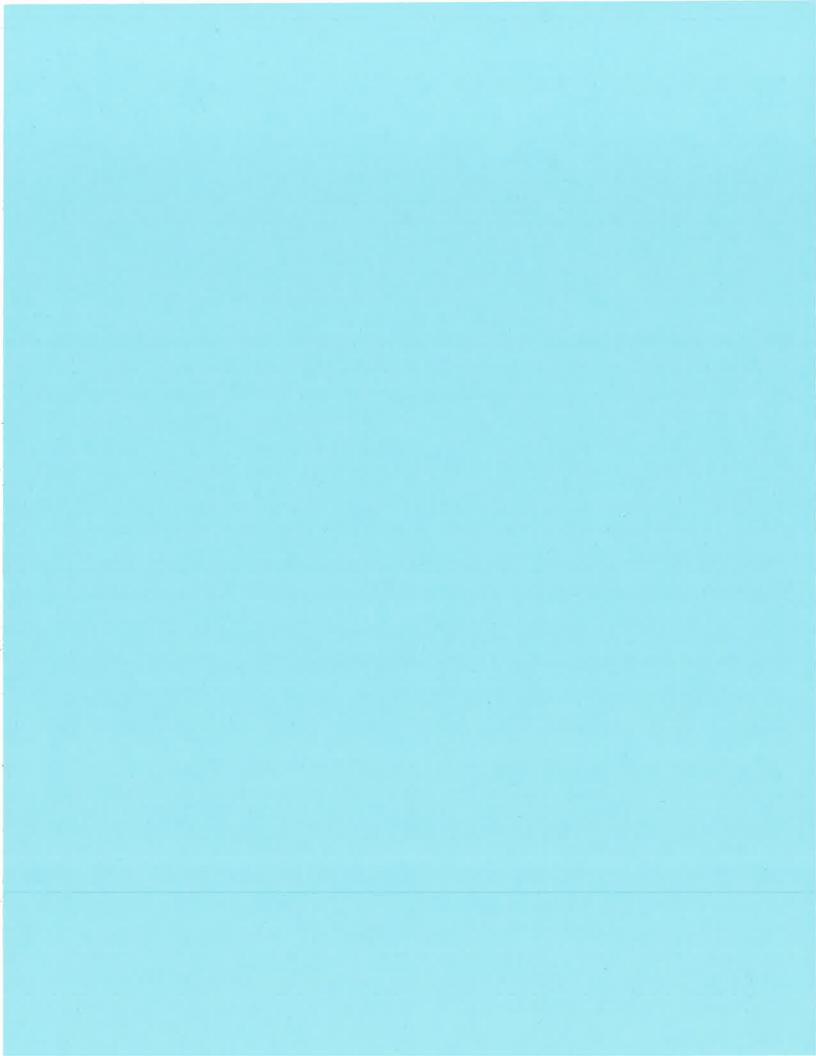
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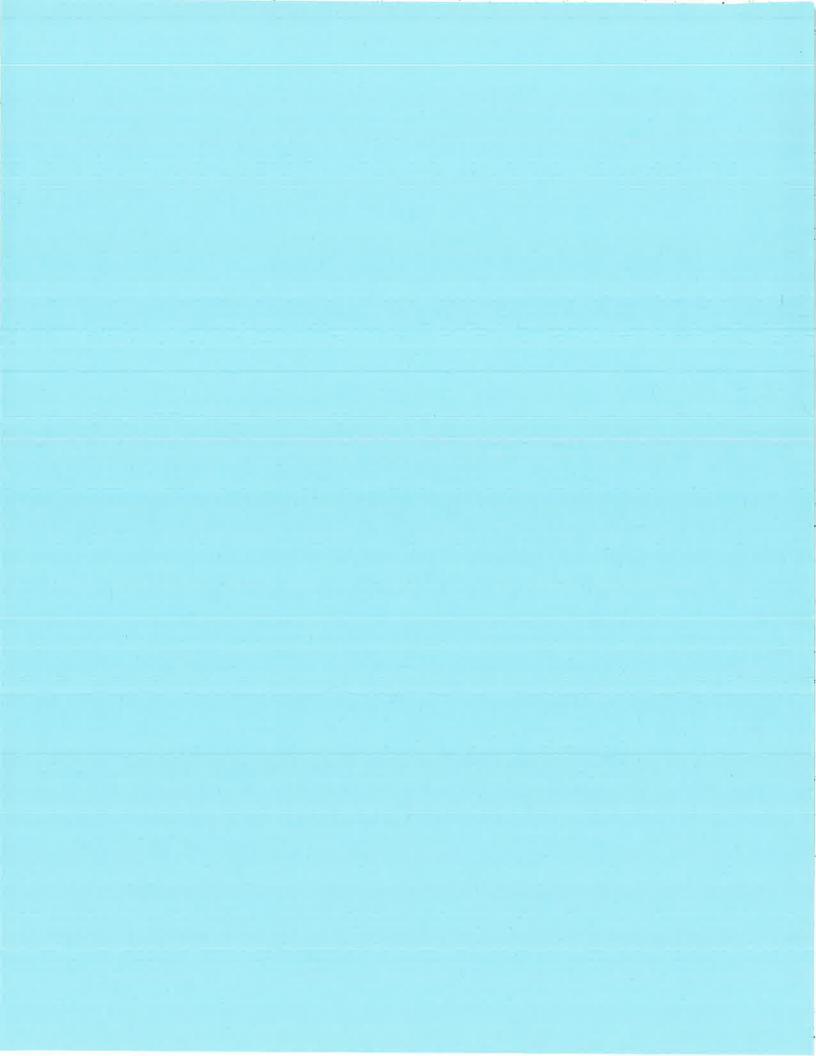
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C. WASTE CHARACTERISTICS

The section presents the characteristics of the hazardous wastes stored at the Hazardous Waste Storage Facility (HWSF) and the Waste Analysis Plan, which provides for waste characterization (through generator knowledge or sampling and analysis) to support storage and disposition offsite. This information is submitted in accordance with the Virginia Hazardous Waste Management Regulations (VHWMR) Sections 11.5.B.2, 11.5.B.3, 10.1.D, and 15.

C-1 CHEMICAL AND PHYSICAL ANALYSES

The HWSF provides interim storage of hazardous wastes in containers pending recycling or offsite treatment or disposal, nonhazardous wastes awaiting recycling or disposition offsite, and asbestos-containing materials, polychlorinated biphenyls (PCBs), and PCB-contaminated materials awaiting shipment offsite for treatment or disposal.

C-1a Containerized Waste

Hazardous wastes generated at Marine Corps Base (MCB), Quantico are generated by a variety of Marine Corps and tenant activities. Wastes generated typically include solvents from cleaning operations, waste paint and paint-related materials, acids and bases from support equipment areas, excess reagents or chemicals that are still in their original containers, photographic solutions, batteries, and other assorted wastes. Most wastes are generated from day-to-day functions such as maintenance, photography, laboratory, and general office support activities. Some wastes are generated on a one-time or infrequent basis.

Most of the wastes generated at MCB, Quantico fall into one of the following groups:

- Halogenated solvents
- Nonhalogenated solvents
- Corrosives
- Contaminated petroleum, oils, and lubricants
- Paints and associated wastes
- PCBs and PCB-contaminated materials, known or suspected
- Toxic (organics and heavy metals)
- Flammable (petroleum-based or alcohol\solvent-based)
- Debris contaminated with the above
- Batteries (some reactive)
- Asbestos-containing materials
- Nonhazardous materials such as cleaning products and rags.

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Table C-1 presents information on the hazardous wastes that have been stored at the HWSF. Because the waste streams generated vary from year to year, the actual waste streams received may vary and may include waste streams not specifically identified in this listing or may have a different combination of waste codes assigned depending on the specific constituents present. The waste codes included on the Part A permit application represent the range of waste types anticipated to be stored at the HWSF during its operating life. At all times, no hazardous waste will be accepted at the HWSF unless the waste code for the material to be stored at the HWSF is one of the applicable waste codes present on the Part A permit application.

Table C-2 presents a summary of non-VHWMR-regulated wastes typically received at the HWSF for storage.

A wide variety of containers are used to store waste at the HWSF. These include glass and plastic bottles (one-half ounce to five gallons) and steel, plastic, or fiberboard drums or containers (one gallon to 150 gallons). A detailed listing is provided in Section D-1a(1) of this application.

Wastes are packaged by the generator at the time of waste generation. Wastes are commonly brought to the HWSF by the generators in their original containers. For wastes that have otherwise been packaged or repackaged by the generator, the compatibility of the waste with the container is assessed by Natural Resources and Environmental Affairs Branch (NREAB) personnel prior to acceptance into the HWSF. For routinely generated waste streams, this assessment has been performed and acceptable packaging is set forth in the waste profile established by NREAB personnel based on information provided by the generator. For one-time or infrequently generated waste streams, a new waste profile is created by NREAB each time the waste is generated and must establish the appropriate packaging. NREAB personnel make this determination using Department of Transportation (DOT) packaging requirements applicable to the waste material's proper DOT shipping name(s) and DOT hazard class(es). Container selection reference guides published by reputable organizations such as Lab Safety Supply may also be used. NREAB personnel verify proper packaging of the waste at the time the generator presents the waste at the HWSF for storage. Packaging deemed incompatible with the waste will be corrected by the generator or will be overpacked.

- C-1b Waste in Tank Systems Not Applicable
- C-1c Waste in Piles Not Applicable
- C-1d <u>Landfilled Wastes</u> Not Applicable
- C-1e Wastes Incinerated and Wastes Used in Performance Tests Not Applicable
- C-1f Wastes to be Land Treated Not Applicable
- C-lg Waste in Miscellaneous Treatment Units Not Applicable

Table C-1. Wastes Stored at the HWSF

Waste Description	VHWMR Waste Codes	Hazard Characteristics Basis for Hazard Designation
Acetone	F003	Ignitable nonhalogenated solvent (spent)
Acetonitrile, tetrahydrofuran	D001	Ignitable
Acetonitrile, methanol	D001 F003	Ignitable
Acids - acetic, chromic, hydrochloric, nitric, phosphoric, sulfuric	D002	Corrosive with pH≤2
Adhesive/sealing compound	D001	Ignitable
Alcohols (various) including denatured, n-butanol, isopropanol, methanol, and ethanol	D001 F003	Ignitable
Aliphatic hydrocarbons	D001	Ignitable
Ammonium hydroxide	D002	Corrosive with pH≥12.5
Printing waste including ammonium thiosulfate, sodium carbonate, sodium sulfate, and silver	D002 D011	Corrosive with pl1≥12.5 and toxic
Ammonium thiosulfate and sodium sulfate	D002	Corrosive with pH≥12.5
Asphalt coating	D001	Ignitable
Batteries - alkali	D002	Corrosive with pH>12.5
Batteries - lithium	D003	Reactive with water

Table C-1. Wastes Stored at the HWSF (continued)

Waste Description	VHWMR Waste Codes	Hazard Characteristics Basis for Hazard Designation
Batteries - magnesium	D007	Toxic
Batteries - mercury	D000	Тохіс
Batteries - NiCad	D006	Toxic
Bromonapthalene	D001	Ignitable
Butyl acetate	D001	Ignitable
Carbon disulfide	D001 F005	Ignitable
Caustic alkali liquid (DS-2)	D002	Corrosive with pH≥12.5
Chloroform	D022	Toxic
Chromium mask filters	D007	Toxic
Cleaner, lubricant, and preservative	F001	Toxic halogenated solvent (spent) from degreasing
Cleaning compound	D001 F003 F005	Ignitable, includes ignitable and toxic nonhalogenated solvents (spent)
Cleaning compound	D001	Ignitable
Cleaner, lubricant, and preservative/protectant liquids and contaminated rags, Q-tips, swabs, etc.	D008	Тохіс
Copper sulfate	D002	Corrosive with pH≥12.5

Table C-1. Wastes Stored at the HWSF (continued)

Waste Description Corrosion prevention compound D001			
	VHW	VHWMR Waste Codes	Hazard Characteristics Basis for Hazard Designation
FUC	D001 F002		Ignitable and includes toxic halogenated solvents (spent)
Cyanide solutions D003	303		Reactive
n-Dimethyl formamide D001	001		Ignitable
Engine gas path cleaner F003 F005	03 05		Ignitable and toxic nonhalogenated solvents
Contaminated ethylene glycol gel D018	118	4 X	Toxic
Formaldehyde D001	100		Ignitable
Freon and Freon-contaminated materials F002	02		Toxic halogenated solvents (spent)
Gasoline, gasoline mixed with oil/diesel, D001 and gasoline mixed with water D018)001)18		Ignitable and toxic
Gasoline contaminated with lead and D0001 benzene D008 D008	001 008 018		Ignitable and toxic
Hexane D001	100		Ignitable
Hydroethyl cellulose D001	100		Ignitable
Kerosene D001	001		Ignitable
Leachate from landfill F039	139		Toxic
Lead-based paint D008	800		Toxic

Table C-1. Wastes Stored at the HWSF (continued)

Waste Description	VHWMR Waste Codes	Basis for Hazard Designation
Lead-contaminated materials (various) including patches, swabs, debris, soil, and water	D008	Тохіс
Lead foil	D008	Тохіс
Mercuric oxide and sulfuric acid	D009 D002	Toxic and corrosive with pH≤2
Mercury	D000	Toxic
Mercury thermometers (broken)	D009	Toxic
Mercury compounds (various) including mercuric chloride and mercuric diphenyl	D009	Toxic
Mercury fluorescent lamps	D009	Toxic
Methylene chloride	F002	Toxic halogenated solvent (spent)
Oil base paint	D001	Ignitable
Oil base paint and mineral spirits	D001	Ignitable
Oil base paint and petroleum distillates	D001	Ignitable
Paint chips and media-blasting material	D006 D007 D008	Toxic
Paint cleaning solvent and paint	F003 F005	Ignitable and toxic nonhalogenated solvents (spent)
Paint filters	D007	Toxic

Table C-1. Wastes Stored at the HWSF (continued)

Waste Description	VHWMR Waste Codes	Hazard Characteristics Basis for Hazard Designation
Paint-related waste	F003 F005	Ignitable and toxic nonhalogenated solvents (spent)
Perchloroethylene filters with liquid	F002 D039	Toxic halogenated solvent (spent)
Perchloroethylene-contaminated rags	F002 D039	Toxic halogenated solvent (spent)
Petroleum distillate	D001	Ignitable
Petroleum naptha	D001 D039	Ignitable and toxic
Phenol	U188	Toxic chemical product
Phenolic stripper (may be mixed with water)	F002 D007	Toxic metal and toxic halogenated solvent (spent)
Phosphoric acid, nitric acid, nickel nitrate, and manganese	D002 D007 D008	Toxic and corrosive with pH52
Photographic fixer and developer (pH 6-8)	D011	Toxic
Photographic fixer and developer (pH 12.5-14)	D002 D011	Toxic and corrosive with pH≥12.5
Potassium hydroxide	D002	Corrosive with pH212.5
Potassium iodide, chloroplatinic acid, hydrochloric acid	D002	Corrosive with pH≤2

Table C-1. Wastes Stored at the HWSF (continued)

Waste Description	VHWMR Waste Codes	Hazard Characteristics Basis for Hazard Designation
Silver diethyl dithio carbonate	D011	Toxic
Silver nitrate solution	D011	Toxic
S-K Immersion cleaner (#699) (monoethanolamine)	D006	Тохіс
Sodium hydroxide, sodium nitrate, sodium carbonate, and sodium thiosulfate	D002	Corrosive with pH≥12.5
Sodium hydroxide	D002	Corrosive with pH≥12.5
Sodium hydroxide contaminated with lead	D002 D008	Corrosive with pH≥12.5 and toxic
Spill cleanup material from pesticides area	D004 D012	Toxic
Synthetic aliphatic hydrocarbons, methanol, ammonium nitrate, acetonitrile	D001 F003	Ignitable nonhalogenated solvent (spent)
Tetrachloroethylene .	F002	Toxic halogenated solvent (spent)
Tetramethylsilane	D001	Ignitable
Tincture Benzoin	D001	Ignitable
Toluene	D001 F005	Ignitable and toxic nonhalogenated solvent (spent)
1,1,1-Trichloroethane	F001	Toxic halogenated solvent (spent) from degreasing

Table C-1. Wastes Stored at the HWSF (continued)

Waste Description	VHWMR Waste Codes	Hazard Characteristics Basis for Hazard Designation
Trichloroethylene	F002	Toxic halogenated solvent (spent)
Trichlorotrifluoroethane with silver	F002 D011	Toxic halogenated solvent (spent)
Vacuum oil, contaminated	D001	Ignitable

Table C-2. Other Wastes and Materials Stored at the HWSF

Non-VHWMR Wastes and Hazardous Mat	erials Stored at th	ne HWSF	
Asbestos materials (e.g., brake pads, tiles)			
Gasoline fuel filters (dry)			
Grease		_ Y	- 5
Latex paint		N.	
Motor oil (recycling)			
Oil/diesel fuel filters (recycling)			
Oil/diesel spill cleanup material (solid, liquid)	W .		
Q-tips and patches			
PCBs and PCB-contaminated materials	5		
Propanol			
Rags, dirty			
Refrigeration oil			10
Silver recovery cartridge (dry)			
Skysol parts cleaner			
Sodium hydroxide (pH 7-11)			
Tire sealant	8.31		1.
Cleaning compound MR (soap and water)	5		Œ

C-1h Waste In Boilers and Industrial Furnaces - Not Applicable

C-2 WASTE ANALYSIS PLAN

The Waste Analysis Plan for the Hazardous Waste Storage Facility is provided in Appendix C-1. The intent of the Waste Analysis Plan is to provide for proper waste characterization and storage pending disposition offsite in accordance with VHWMR and MCB, Quantico requirements. The Waste Analysis Plan was prepared in accordance with the VHWMR Sections 10.1.D, 11.5.B.3, and 15. Table C-3 cross-references the VHWMR requirements and the location of the information in the HWSF Waste Analysis Plan.

Table C-3. Cross-Reference of Regulatory Requirements for Waste Analysis Plans

Regulatory Requirement	Location in HWSF Waste Analysis Plan
Parameters and Rationale	Section B.3
Test Methods	Section B.4
Sampling Methods	Section B.5
Frequency of Analysis	Section B.6
Additional Requirements for Wastes Generated Offsite	Section E
Additional Requirements for Ignitable, Reactive, or Incompatible Wastes	Section B
Waste Analysis Requirements Pertaining to Land Disposal Restrictions	Sections B and D
Notification, Certification, and Recordkeeping Requirements	Section F
Requirements Pertaining to the Storage of Restricted Wastes	Sections B and D

APPENDIX C-1

WASTE ANALYSIS PLAN FOR THE HAZARDOUS WASTE STORAGE FACILITY

WASTE ANALYSIS PLAN FOR THE HAZARDOUS WASTE STORAGE FACILITY

Revision 1 July 1997

Environmental Affairs Section
Natural Resources and Environmental Affairs Branch
Marine Corps Base, Quantico, VA

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WASTE ANALYSIS PLAN

In accordance with the requirements of Virginia Hazardous Waste Management Regulations (VHWMR) §10.1.D. and 11.5.B.3, the following is a description of the Hazardous Waste Storage Facility (HWSF), the types of hazardous wastes stored by Marine Corps Base (MCB), Quantico, and the waste analysis plan. This Plan was developed to ensure that MCB, Quantico has sufficient information to determine if wastes are hazardous in accordance with the Virginia Department of Environmental Quality (DEQ) and the Resource Conservation and Recovery Act (RCRA) requirements, to establish proper placement within a compatibility group preventing mixing of incompatible wastes, to properly manage the wastes at the HWSF, to identify waste hazard classes as defined by the Department of Transportation (DOT), and to provide identification needed by transporters and treatment and disposal facilities to comply with RCRA.

A. FACILITY DESCRIPTION

MCB, Quantico is located approximately 35 miles south of Washington, DC, and approximately 12 miles north of Fredericksburg, Virginia, along the west bank of the Potomac River. MCB, Quantico consists of slightly more than 60,000 acres in Prince William, Stafford, and Fauquier Counties. The population of the installation is over 13,000.

The MCB, Quantico mission is to respond to the needs of the Marine Corps by translating the requirements into equipment, structure, training, education, and doctrine. This includes developing training and education policy for the Marine Corps; providing training, training resources, and education for Marines; and developing Marine Corps concepts, plans, and doctrine. MCB, Quantico includes the Marine Corps University, the Marine Corps War College, and the Command and Staff College. In addition, MCB, Quantico provides functional support for executing the overall Quantico mission including, but not limited to, personnel administration, facilities, logistic, financial, security, public information, legal, Base operating, training, administrative, morale, welfare, and recreation support for Marine Corps and tenant organizations. MCB, Quantico includes an operational airfield supporting Executive Branch aviation requirements and tenant operations such as the Federal Bureau of Investigation (FBI) Academy.

The HWSF provides for storage of hazardous wastes pending recycling or offsite treatment or disposal, nonhazardous wastes awaiting recycling or disposition offsite, and asbestos—containing materials, polychlorinated biphenyls (PCBs), and PCB—contaminated materials awaiting shipment offsite for treatment or disposal. The HWSF is located 3.1 miles west of I-95. It consists of a main storage building with 7 storage bays and a central storage area, an exterior concrete and asphalt unloading area, an office, and an annex for nonhazardous waste, hazardous

materials (e.g., grease), and additional supplies for hazardous waste management and spill response operations. The HWSF interior also includes areas for consolidating paint waste and puncturing aerosol cans.

The HWSF is equipped with a secondary containment system including curbing and trenches to collect waste in the event of a spill. The HWSF accepts wastes in a range of container sizes up to 150 gallons. Incompatible wastes are segregated by placing waste in different storage bays or by physical separation by rows of compatible waste to prevent mixing in the event of a spill, leak, or other accidental release. Nonhazardous and PCB wastes are also segregated from other wastes in storage.

Hazardous wastes at MCB, Quantico are generated by a variety of Marine Corps and tenant activities. Wastes generated typically include solvents from cleaning operations, waste paint and paint-related materials, acids from support equipment areas, excess reagents or chemicals that are still in their original containers, and other assorted wastes. The wastes are largely generated from uniform and controlled industrial processes and therefore retain consistent physical and chemical properties from batch to batch. Some wastes are generated on a one-time or infrequent basis.

Most of the wastes generated at MCB, Quantico fall into one of the following waste groups:

Halogenated solvents
Nonhalogenated solvents
Corrosives
Contaminated petroleum, oils, and lubricants
Paints and associated wastes
PCBs and PCB-contaminated materials, known or suspected
Toxic (organics and heavy metals)
Flammable (petroleum-based or alcohol/solvent-based)
Debris contaminated with the above
Batteries (some reactive)
Asbestos materials
Nonhazardous materials such as cleaning products and rags.

These wastes are delivered by the generators to the HWSF from the less than 90 day storage sites and satellite accumulation areas within MCB, Quantico until contractors pick them up for offsite disposition. The amounts of wastes generated, recycled, and disposed are reported annually to the Naval Energy and Environmental Support Activity, to the Environmental Protection Agency (EPA), and to the Virginia DEQ.

B. WASTE ANALYSIS PLAN

Waste characterization is conducted by the generator at the point of generation and provided to the Environmental Affairs Section of the Natural Resources and Environmental Affairs Branch (NREAB) as specified in this Waste Analysis Plan. Containers of waste

are not placed in the HWSF until adequate characterization data have been obtained and the waste has been properly classified. In some circumstances, unknown wastes may be received at the HWSF pending receipt of analytical results (refer to Section C for additional detail). Waste characterization may be through generator knowledge or sampling and analysis of the waste stream. For hazardous wastes, only wastes with the waste codes specified in the permit may be stored at the HWSF.

1. <u>Initial Hazardous Waste Determination</u>

MCB, Quantico requires wastes to be accurately identified by the generating organization, which also has the responsibility for proper packaging, labeling, and transportation of their waste to the HWSF for storage pending final disposition. In most cases, the generator's understanding of the waste generating process and of the raw materials used is sufficient to satisfactorily identify the waste and preclude the need for costly analytical services. In other cases, the waste is simply an unused hazardous material with an expired shelf life that is easily identifiable through labels, container markings, or manufacturer's specifications. Laboratory analysis is used as needed to supplement or verify the generator's description or to characterize unknown waste. Acceptable characterization methods are established in Section B.4 of this Plan.

In characterizing a waste, the generator must identify the chemical constituents. This may be accomplished by referring to the Department of Defense (DOD) Hazardous Material Information System (HMIS), a suitable Material Safety Data Sheet (MSDS), or similar documentation. The HMIS and MSDS data sheets will identify the various constituents in the waste and allows comparison with the lists of wastes under VHWMR §3.5-3.10 and §6.1. To a large extent, this assessment is based on user knowledge of the waste.

If the chemical constituents of the waste are not shown in the HMIS or if the waste is from a process for which there is no MSDS, no entry in the HMIS (e.g., mixed paint waste), or no other information resource, then the waste must be sampled and analyzed as set forth in Sections B.3, B.4, and B.5 of this Plan. Unused materials or expired shelf life materials in unopened containers will not undergo sampling and laboratory analysis unless container markings have been destroyed.

Any requests for analysis must be submitted to the Environmental Affairs Section of the Natural Resources and Environmental Affairs Branch (NREAB).

Abandoned chemicals and chemicals in containers that have lost their labels or markings and are otherwise not identifiable by user knowledge or from a known source shall be considered as unknowns and managed as such. This includes stenciling the container with the words "UNKNOWN Pending Analysis (date)" and isolating the unknown from other types of hazardous waste or

Table 1
Parameters for Hazardous Waste Characterization and Rationale for Selection (continued)

Parameters	Rationale for Selection
Listed Wastes	Determine if waste is listed waste under VHWMR. Determine LDR applicability. Determine any special handling or segregation requirements.
Physical State	Determine the presence of free liquids. Determine proper treatment and/or disposal requirements.
Chemical Constituents	Determine special handling, storage, and transport requirements.
Incompatibility	Ensure waste compatibility with storage container. Ensure incompatible wastes are not placed in the same container. Determine segregation requirements during storage. Compatibility determinations will be made using VHWMR Appendix 10.5 and A Method for Determining the Compatibility of Hazardous Wastes, EPA-600/2-80-076.
Prohibited Materials (radioactive, ordnance, biological, or pathogenic wastes)	These wastes are not accepted at the HWSF.
PCBs (including PCB- contaminated materials)	Require segregation and storage in the HWSF central storage area in compliance with 40 CFR 761.
Nonhazardous materials	Require segregation.

The generator selects the appropriate parameters for waste characterization based on knowledge of the waste source. Thus, not all of the parameters identified in Table 1 will be selected for each waste stream. All generator waste characterization information undergoes review by the Environmental Affairs Section of NREAB. Based on this review, the Environmental Affairs Section may specify additional waste characterization parameters.

Characterization of unknown waste is addressed in Section C.

4. Characterization and Analytical Methods

Most of the waste streams received at the HWSF are characterized through generator knowledge because the waste streams are routinely generated from known processes. This waste characterization information is supplied by the generator to NREAB in order to establish waste profiles as described in Section 2.

Generator/process knowledge information acceptable for waste characterization includes, but is not limited to:

- DOD HMIS provides detailed and specific information on all products purchased through the Marine Corps supply system. The HMIS is indexed by NSN, chemical manufacturer, product nomenclature, and EPA identification number. The HMIS is updated quarterly and a fully revised CD-ROM is published annually.
- MSDSs.
- Chemical Specifications from the purchase specifications of the particular chemical, from product information provided by the manufacturer, on the labels for the particular chemical, or standard chemical reference documents for "pure" chemicals where the material contents and characteristics are well known (e.g., hydrochloric acid).
- Process Description pertinent details of the process generating the waste and the chemicals used that may have generated the particular waste need to be described.

Other information sources may be used as long as they can provide detailed information on the chemical constituents present, chemical concentrations, and material characteristics (physical state, ignitability, etc.) as defined in Table 1.

Sampling and analysis of waste streams is performed when no other information is available or where additional information is required for waste characterization or for offsite treatment or disposal. In such cases, the analytical methods to be used are those specified in EPA Publication SW-846, Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, third edition, as amended, and VHWMR Appendix 3.4. Other EPA-approved methods may be used on a case-by-case basis with prior approval of the Environmental Affairs Section of the NREAB. The hazardous waste constituent concentration will be determined based on the lowest estimated practical quantification limits.

5. Sampling Methods

When sampling and analysis is conducted for waste characterization, the sampling methodology presented below must be followed.

a. <u>Sampling Techniques</u>. Due to the physical and chemical variations of the wastes that could be received at the HWSF, sampling techniques will differ among the waste streams. Waste streams may be mixtures or non-uniform; therefore, care must be taken to obtain a representative sample. This includes consideration of the uniformity of the waste in a container and to variations in waste generation that may cause the waste stream to change.

The appropriate sampling technique is selected based on knowledge of the waste matrix (solid, liquid, sludge) and the specific analytes of interest. Liquids and sludges are the most common forms of hazardous waste at MCB, Quantico. For these wastes, the sampling equipment or devices used may include glass pipettes, bailers, drum thief, or composite liquid waste sampler (COLIWASA). These devices collect material throughout the depth of liquid in a container, assuring a representative sample.

Samples from solids and semi-solids may be obtained by spatulas, corers, chisels, scrapers, etc., as appropriate to the material. The sample should closely approximate the physical composition of the source so that the sample represents the chemical whole accurately.

For all wastes, except mixed paint wastes, a single sample (top to bottom) is collected from a container. Samples from multiple containers of the same waste will be composited for analysis (except for non-uniform or layered wastes). For samples to be analyzed for volatile organics, grab samples will be collected and will not be composited.

Mixed paint waste is sampled by compositing three grab samples, one each from the top, middle, and bottom of the container. Samples from multiple containers of mixed paint wastes are not composited.

The sampling methods and equipment will in all cases adhere to guidance provided in EPA SW-846 and VHWMR Appendix 3.2.

b. <u>Sample Containers and Preservation</u>. Sample container selection is critical to sample quality. Sample container selection must conform to the methodology outlined in EPA SW-846, Section 9.2.2.4, and must consider analytes of interest, durability, volume, and compatibility. Except for volatile analyses and some solvents and oils, a plastic one quart bottle is best. Corrosive samples must not be placed in metal containers.

Sample preservation will be in accordance with EPA SW-846.

- c. <u>Sampling Procedure</u>. The basic sampling procedure is as follows:
 - Don any personal protective equipment (e.g., gloves, goggles, shields, etc.) required for the particular waste to be sampled.
 - 2. Ensure the sampling device is clean and functioning properly.
 - 3. Collect sufficient sample volume for all analyses with minimum disturbance of the waste matrix. The collection protocol will be specific to the sampling device used and waste matrix being sampled.
 - 4. Fill sample containers in the following sequence: headspace volatile organics, volatile organics, semivolatile organics, metals, ignitability, pH (corrosivity), reactivity.
 - 5. Add any required preservatives.
 - 6. Label sample containers.
 - 7. Properly clean and decontaminate sample containers (exterior), the sampling equipment, and any personal protective equipment used.
 - 8. Custody-seal all sample containers.
 - 9. Protect and secure samples in a durable shipping container (e.g., cooler or comparable receptacle) for transport to the laboratory. Add ice if required for sample preservation.
 - 10. Complete the chain-of-custody and any request-for-analysis forms.
 - 11. Review all paperwork and enclose the forms in the shipping container.
 - 12. Seal and mark the shipping container in accordance with DOT requirements.
 - 13. Transport samples to the analytical laboratory.

A single duplicate sample will be taken from each waste batch or container sampled to serve as a duplicate sample, as needed.

d. <u>Sample Labeling, Handling, and Transport</u>. All samples will have labels with a unique identifier code, date/time of collection, sample collector's name, preservatives used, and analyses requested.

Sampling activities will be documented and strict chain-of-custody records will be maintained. The chain-of-custody procedures in EPA SW-846, Volume II, Section 9.2.2.7, will be followed. Each person who handles the sample will, upon receipt, sign and date the chain-of-custody record (up to and including sample receipt at the laboratory).

Samples are sent to offsite laboratories in a timely manner to ensure sample receipt at the laboratory is within the applicable holding time. Hazardous waste samples must be properly packaged, marked, labeled, and transported in accordance with EPA, VHWMR, DOT, and DOD requirements. Shipping papers are prepared as required by DOT and VHWMR. Sample packaging must be in accordance with VHWMR §3.1.D.

In accordance with VHWMR §3.1.D, the transport of a sample collected for the sole purpose of testing to determine its characteristics or composition is not subject to the VHWMR when the sample is being transported to or from a laboratory, or while in temporary storage after testing for a specific purpose.

Sampling information, custody records, and analytical results are submitted to NREAB for review and approval.

6. Frequency of Analysis

The characterization of routinely generated wastes will be reevaluated annually, at a minimum, and whenever there is a change in the generating process (i.e., raw materials and/or process equipment) or any indication that the hazardous waste brought to the HWSF does not match the waste designated on the accompanying documentation or labels. Since the painting, cleaning, and maintenance activities that typically generate wastes at MCB, Quantico do not usually change significantly, only a change in chemicals or the process used is likely to alter the characteristics of the waste stream.

Wastes generated on an infrequent or one-time basis, such as unused, partially used, or expired shelf life materials, will be characterized each time they are generated.

7. Quality Assurance/Quality Control Methods

Commercial laboratories retained to conduct hazardous waste analyses are required to submit a written quality assurance plan for review by MCB, Quantico. This plan must include procedures that assure equipment, standards, reagents, gases, and containers are organized, operated, and maintained properly. The plan must also detail steps to assure personnel are trained on the analytical methods to be used and require that bound logs be kept for every analytical test equipment apparatus. Sample chain-of-custody procedures must be clearly documented. Data handling must be reliable and represent the original sample and the analytical method. Laboratory notebooks must be continuously maintained with complete information and periodically reviewed by

the laboratory manager. Laboratories must reference and certify that their procedures comply with EPA SW-846.

The laboratory must certify its use of the methods specified in this Waste Analysis Plan and must be able to provide, upon request, documentation of acceptable quality assurance/quality control procedures. Acceptable documentation will include compliance with the quality control section of EPA SW-846.

All data transmittals to MCB, Quantico will be in report form with accompanying appendices where needed. Original instrumentation charts, strip charts, and other analytical device products/records will be retained for at least five years and made available to MCB, Quantico upon request.

C. CHARACTERIZATION OF UNKNOWN WASTE

Occasionally there may be containers of unidentified waste at MCB, Quantico. The materials may be unidentified due to the loss of container markings or to other causes. Unknown waste may be stored in a less than 90 day area maintained under VHWMR §6.4.E requirements. Exceptions to place unknown waste in the HWSF may be granted following formal requests for a waiver, which must be submitted to the Head, NREAB.

The generator must isolate the unknown waste and prevent anyone from adding to it, which would invalidate the results of the investigation or any laboratory tests that may be conducted. The general appearance of the waste and other physical properties along with user knowledge of the generating process will be used to ultimately select any tests required to characterize the unknown waste.

The generator must label the waste as "Unknown Pending Analysis" (or comparable language). The generator should also identify on the container any known details such as the date found.

The following procedure is used to determine whether the material is a hazardous waste:

- a. Record all marks on the container, particularly an NSN, product name, or chemical name.
- b. If an NSN is found, locate the NSN in the HMIS CD-ROM. The computer database will contain specific information (i.e., color, appearance, pH, specific gravity, etc.), which should be compared to the unknown material. This may eliminate the need for extensive analytical testing. For instance, if the HMIS indicates that the material should have a pH of 4.0 and a specific gravity of 1.3, a laboratory can quickly check these parameters. If the unknown material matches these, then the unknown is the material identified by the NSN on the container. If no NSN is present, but a product name is located on the container, use the same procedure checking the product name cross-reference to the HMIS. If only a

chemical name is present, information on the physical properties of chemicals can be found in <u>Dangerous Properties</u> of <u>Industrial Materials</u>, Irving Sax, editor (Van Nostrand Reinhold Co.), the <u>Fire Protection Guide to Hazardous Materials</u> (National Fire Protection Association, Boston, MA), or equivalent reference materials. The MSDSs on file in MCB, Quantico's Safety Office may also be used to obtain information on the chemical and physical properties of hazardous materials.

- c. If the material has been determined to be the same as the container markings, use the HMIS or other information sources to determine the following:
 - 1. Is the pH less than or equal to 2.0?
 - 2. Is the pH greater than or equal to 12.5?
 - 3. Is the flash point less than 140°F?
 - 4. Is the material an oxidizer?
 - 5. Does the material react violently with water?
 - 6. Does the material contain metals, organics, or pesticides? If so, toxicity characteristic leaching procedure (TCLP) laboratory tests will be conducted to determine if the material is a hazardous waste.
 - 7. Does the material contain any chemical listed in the VHWMR Appendix 3.1, Table 3.1-1?
 - 8. Is the material a pure form of any chemical listed in VHWMR Appendix 3.1, Table 3.1-3 or Table 3.1-4?
 - 9. Does the material exhibit hazardous waste characteristics as identified in VHWMR §3.6 through 3.10?

A "yes" to any one or more of the above means the material is a hazardous waste. All applicable hazardous waste codes must be identified.

d. If the material does not match the container markings, it is necessary to perform laboratory tests to determine if the waste is hazardous waste. MCB, Quantico will have a competent laboratory perform an analysis on a representative sample of the waste using the methodology identified in Sections B.3, B.4, and B.5 of this Waste Analysis Plan. If the waste fails one or more of the characteristic tests, then it is a hazardous waste. If the unknown waste is not a

characteristic hazardous waste, then MCB, Quantico may have the laboratory identify the specific constituents in the waste. All applicable hazardous waste codes must be identified.

Extreme caution will be used when handling unknown wastes. These wastes are assumed to be hazardous until proven otherwise.

All sampling and analysis will be conducted in accordance with the methodology and requirements established in Section B of this Waste Analysis Plan. Additional tests may be required on a case-by-case basis. For instance, an analysis for PCBs may be necessary prior to disposal of unknown waste.

D. WASTE ANALYSIS REQUIREMENTS PERTAINING TO LAND DISPOSAL RESTRICTIONS (LDRs)

VHWMR prohibits the land disposal of certain types of wastes. The hazardous wastes stored at the HWSF fall within the purview of these LDRs. The waste analysis requirements set forth in Section B of this Waste Analysis Plan were developed to collect the necessary information to fulfill both waste characterization and LDR requirements. Wastes are characterized before acceptance into the HWSF for storage ("unknowns" are a special case as described in Section C). Waste characterization data are evaluated to identify all applicable hazardous waste codes, treatment standards, and LDR notifications and certifications required. Where a waste has more than one hazardous waste code or overlapping hazardous waste codes, the most stringent LDR treatment standard is applied.

Containers of waste received for storage are clearly marked as to their contents and their accumulation start date. The HWSF provides storage for wastes pending shipment offsite. Wastes subject to LDR requirements must be shipped within one year of receipt at the HWSF.

For shipment offsite, all wastes are properly characterized, containerized, and labeled. Each waste shipment offsite is accompanied by the manifest and all applicable LDR notifications and certifications for the wastes.

E. ADDITIONAL REQUIREMENTS FOR WASTES GENERATED OFFSITE

MCB, Quantico does not accept hazardous wastes from offsite generators.

F. RECORDKEEPING

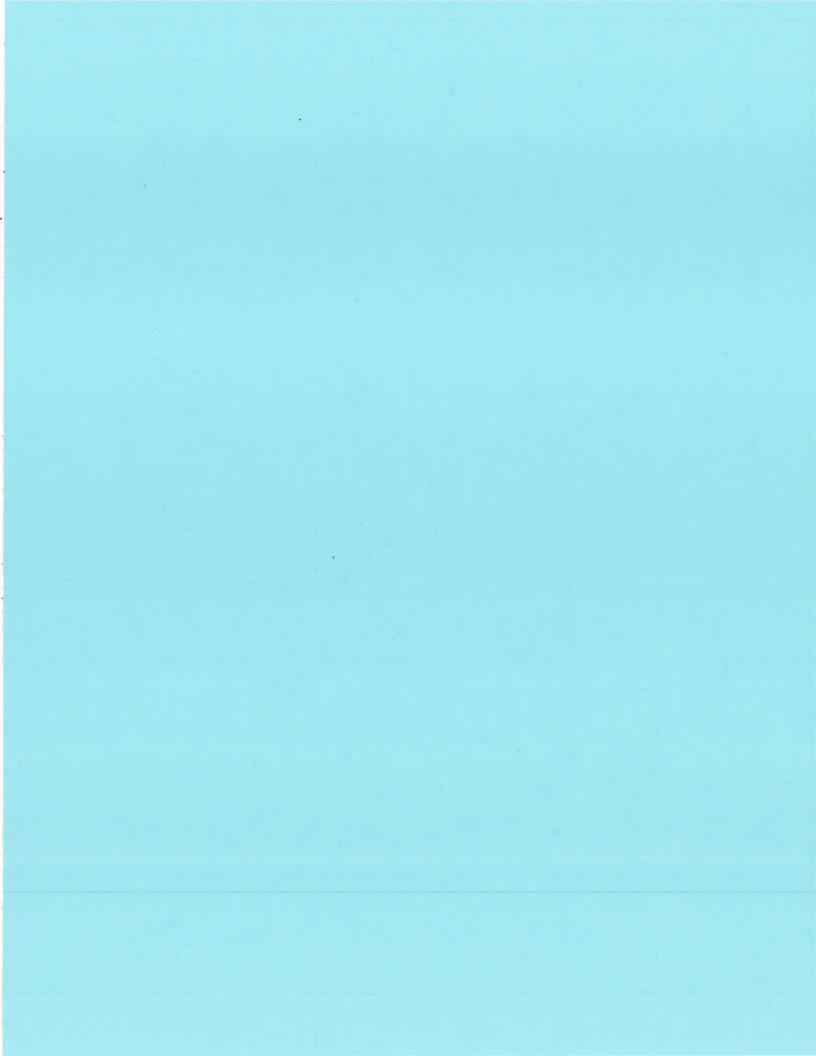
This Waste Analysis Plan will be revised whenever:

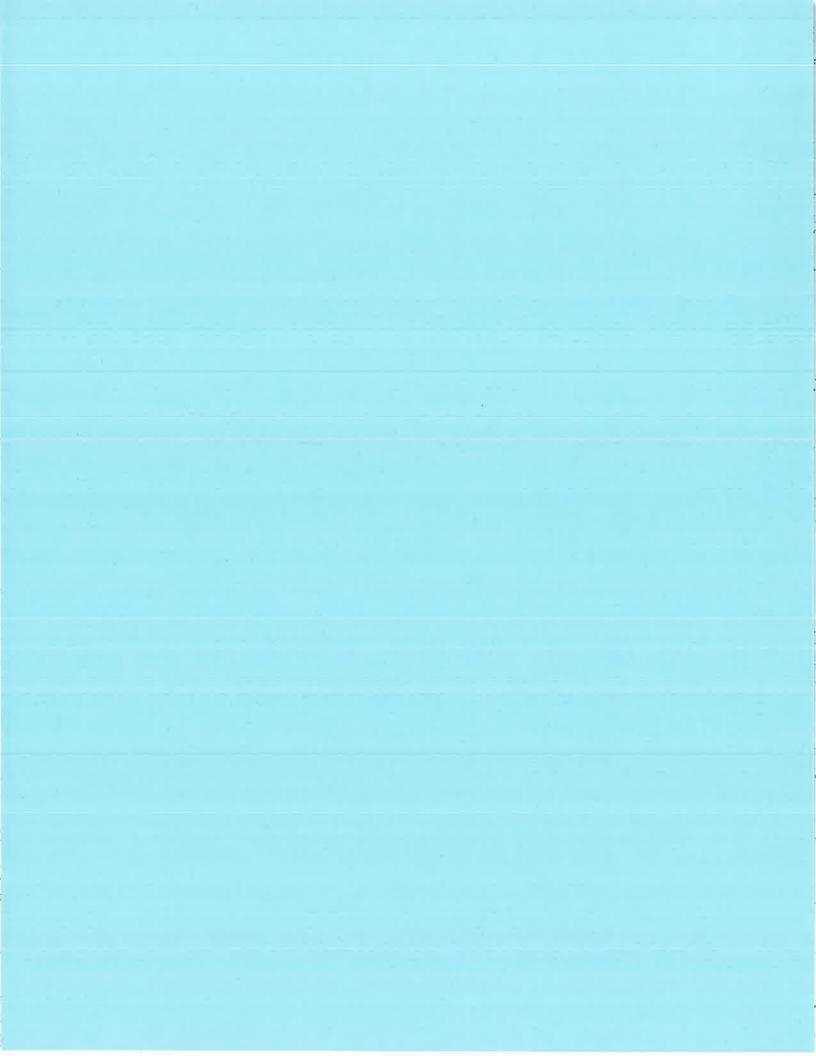
- Test methods are changed
- Waste streams or process operations are modified, thus requiring a change in the parameters to be tested

- Referenced personnel, organizations, or procedures change
- Regulations affecting the Plan change.

Records associated with waste characterization and analysis, including waste profiles, DD Form 1348-1, LDR notifications and certifications, and all supporting data used to make the hazardous waste determination, are maintained by the Environmental Affairs Section of the NREAB for at least 5 years. NREAB records also include description and quantity of each waste received, dates of storage, quantity and location of waste within the HWSF, and an annual certification that a waste minimization program is in place to reduce the volume and/or toxicity of wastes generated. Laboratory documents are maintained at the laboratories conducting waste analyses.

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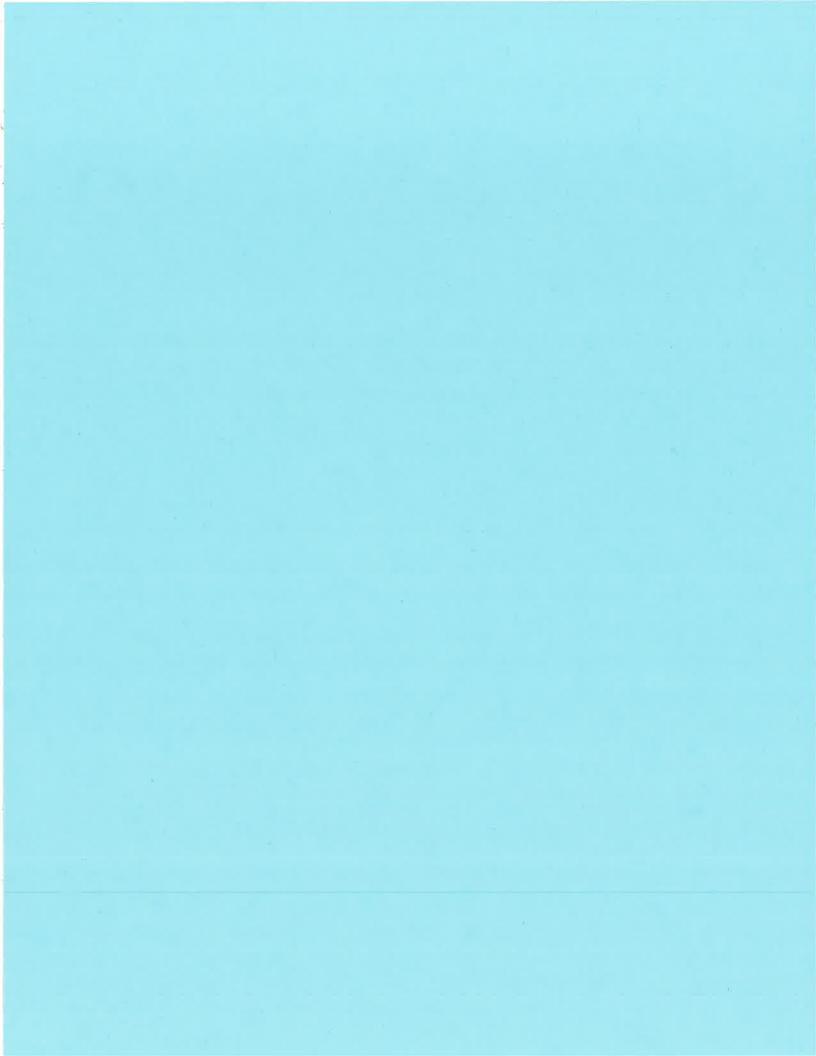


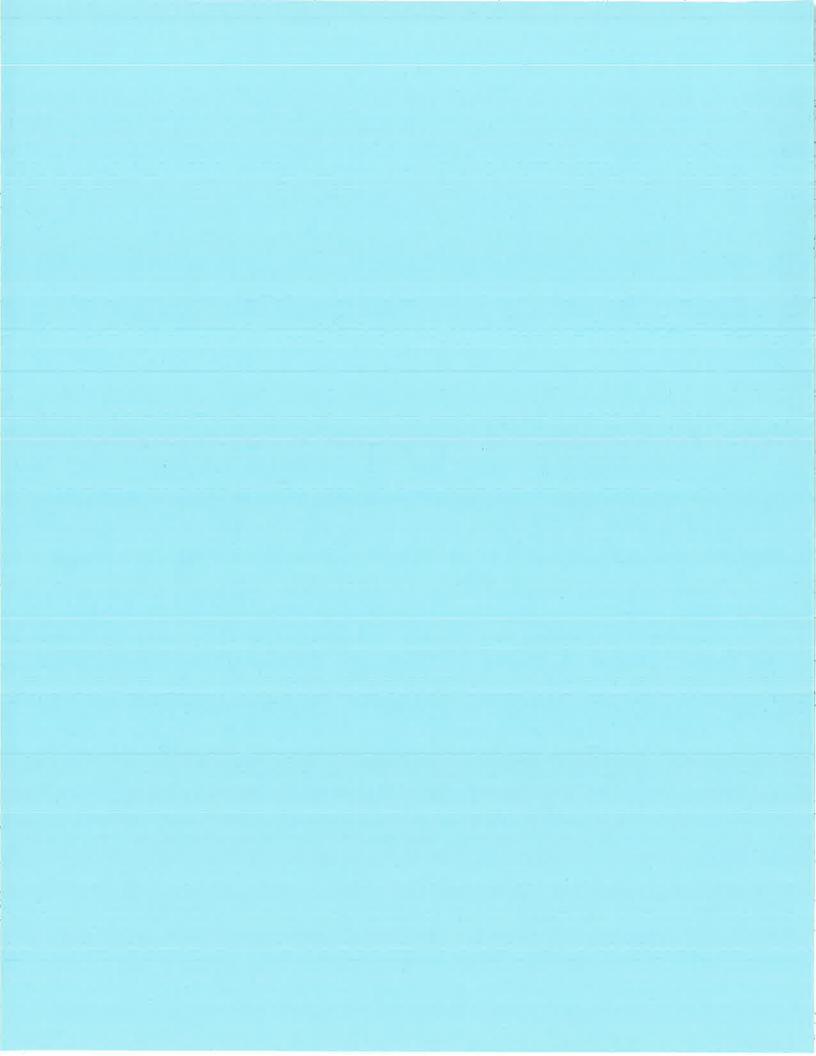
OUANTICO PROFILE SHEETS, 1997

QA-1	ADHESIVE/SEALING COMPOUND: FSC=8040 EPA=DOO1 SITE=FMB, MWR CLIN=9101 PRICE=\$1.30
QA-2	MERCURY: 6810 D009 NMC, FBIL, 9401MM, \$7.00
QA-3	1321001111 0010 2003 1110, 1221, 3401111, 47.00
QA-4N	ASBESTOS BRAKE PADS: 2940 MTM ETS 9904 \$0.40
QA-5N	ASBESTOS TILES: 2940 FMB MWR 9904 \$0.40
QA-6	ASDESTOS TILES. 2940 FMB MWK 9904 50.40
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QA-7	CHROMIUM MASK FILTERS: 9999 D007 TBSI 9404 \$0.68
QA-8	OIL/DIESEL MIXED WITH GASOLINE: 9130 DOO1 DO18 MTM FMB MWR 9102 \$0.50
QA-9	GASOLINE & WATER: 9130 DOO1 DO18 MTM FMB MWR 9102 \$0.50
QA-10N	OIL/DIESEL SPILL CLEAN-UP (SOLID): 9999 FMB MTM GUAD MWR HMX WTB 9904 \$0.40
QA-11N	LATEX PAINT: 8010 FMB MWR 9902 \$0.45
QA-12	LITHIUM BATTERIES: 6135 D003 COS TBS TBS HMXS 9304LL \$5.75
QA-13	MERCURY BATTERIES: 6135 D009 COS TBS HMXS 9304LL 35.75
QA-14	BROKEN MERCURY THERMOMETER: 6810 D009 NMC 9401MM \$7.00
	NICAD BATTERIES: 6135 D006 COS TBS HMXS 9404NC \$0.75
QA-16	OIL BASE PAINT: 8010 D001 FMB MWR MUS HMXS NMC 9102 \$0.50
QA-17	
	PAINT CHIPS & MEDIA BLASTING MATERIAL: 8010 D006 D007 D008 MUS MWR 9404 \$0.68
QA-18	
QA-19	
QA-20	PHOSPHORIC ACID + NITRIC ACID + NICKEL NITRATE + MANGANESE: 6810 D002 D007 D008 WTB 9202 0.56
QA-21 ·	
QA-22	
QA-23	SODIUM HYDROXIDE + SODIUM NITRATE + SODIUM CARBONATE +
	SODIUM THIOSULPHATE: 6850 D002 WTB 9202 \$0.56
QA-24	SODIUM HYDROXIDE: 6850 D002 WTB 9202 \$0.56
QA-25	OIL/DIESEL SPILL CLEAN UP (LIQUID): 9999 FMB MTM GUAD MWR
4	WTB ETS 9902 \$0.45
QA-26N	FUEL FILTERS: 2940 FF 9904 \$0.40
QA-27	10LD 11L1LKS: 2940 11 9904 90.40
QA-27 QA-28	SKYSOL PARTS CLEANER: F003, F005 6850 FBI 9402 \$0.68
QA-28 QA-29	Q-TIPS & PATCHES: 9099 D008 FBI 9404 \$0.68
QA-30	MAGNESIUM BATTERIES: 6135 D007 COS TBS HMXS 9404 \$0.68
QA-31	PETROLEUM NAPTHA (SAVIN TONER WASTE): 6810 D009, D010,
D018,	D022, SAVIN CORP. 9402, \$0.68
QA-32	TOLUNE, DIMETHYLDICHLOROSILANE: 6850 D001 F005 FBI 9102
\$0.50	
QA-33	METHANOL, ACETONITRIL, ACETONE: 6850 D001 F003 FBI 9102
\$0.50	
QA-34	METHYLENE CHLORIDE: 6850 F002 FBI 9402 \$0.68
QA-35	CHLOROFORM, ANTIMONY PENTACHLORIDE: 6850 D022 FBI 9404
	\$0.68

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QA-36 SODIUM DICHROMATE: 6850 D007 9401 $0.65
QA-37 BARIUM CHLORIDE: 6850 D005 9401 $0.65
QA-38N SYNTHETIC ALIPHATIC HYDROCARBON: 9901 $1.40
QA-39N AMMONIUM SALT: 9901 $1.40
QA-41 CLEANING COMPOUND: 6850 D002 9202 $0.56
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EA-1EA-2 CORROSION PREVENTION COMPOUND: 6810 F001 F002 HMX 9402 EA-3 \$0.68 EA-4EA-5 GREASE: 9150 TBST MTM HMX HMXS 9902 \$0.45 EA-6N MOTOR OIL (RECYCLING): 9150 MTM FMB HOB TBSM TBST FBIM HMX EA-8N 9902RR \$0.48 OIL BASE PAINT, MINERAL SPIRIT (RECYCLING); 8010 D001 FMB EA-9 MWR NMC 9102RR \$0.54 PETROLEUM DISTILLATE: 6850 D001 REC 9102RR \$0.54 EA-10 EA-11 S-K IMMERSION CLEANER (MONOETHANOLAMINE): 6810 D006 AOTB EA-12 S-K PREMIUN SOLVENT (PETROLEUM NAPTHA): 6810 D001 D039 AOTB EA-13 OIL/DIESEL FUEL FILTERS (RECYCLING): 2940 AOTB EA-14N EA-15N SILVER RECOVERY CARTRIDGES (DRY): 9999 NMC DENT EA-16 CLEANER, LUBRICANT & PRESERVATIVE: 9150 F001 OCSA 9502 \$0.58 HYDROCHLORIC ACID: 6810 D002 FBI 9202 \$0.56 EA-17 SULFURIC ACID: 6810 D002 D008 FBI MTM NMC 9202 \$0.56 EA-18 PHOSPHORIC ACID: 6810 D002 FBI 9202 \$0.56 EA-19 MANGANOUS SULPHATE 6850 9901 \$1.40





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DENSIT SOLIDS < 50 ASH LAYERING: MULTILAYERED BILAYERED SINGLE RCRA CHARACTERISTICS RYSICAL STATE: SOLID LIQUI SEMI-SOLI GAS OTHER REATMENT WASTEWATE NON-WASTEWATER REATMENT WASTEWATE NON-WASTEWATER REATMENT SALE (DOO1 64-80 REACTIVE (DOO3) FLASH POINT CYANIDE REACTIVE LOW TOC (< SULFIDE REACTIVE TOXICITY CHARACTERISTIC INSEE REVERSE FOR LISTING) PH SEE REVERSE FOR LISTING DEPER PHENOLICS CORROSISE TEEL CHEMICAL COMPOSITION (ppm or mail.) DOPPER PHENOLICS CKEL TOTAL HALOGENS CKEL TOTAL HALOGENS CKEL TOTAL HALOGENS CERCLA REPORTABLE QUANTITY (RQ) EMERGENCY RESPONSE GUIDE PAGE DOT PUBLICATION 5800.4 PAGE EDITION (YR) SPECIAL HANDLING INFORMATION CENERATOR CERTIFICATION ASSESSMENT ARE VERDENING, PRODUNCTURE, AND ETIOLOGICAL MISTER PRODUCT ACCEPTED BY THE DRIVING CONTINUENCY AND ETIOLOGICAL ASSESSMENT ARE VERDENING FOR THE PROPER SOLUTION (AND HAND WITH PRODUCTIVE AND ETIOLOGICAL ASSESSMENT ARE VERDENING FOR THE PROPER SOLUTION (AND HAND WITH PRODUCTIVE AND ETIOLOGICAL ASSESSMENT ARE VERDENING FOR THE PROPER SOLUTION (AND HAND AND AND AND AND AND AND AND AND AND			
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## HIGH TOC (>	TOTAL	100	
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ALM-49-0465-RB(G), 49 CFR Ch1, Bhasker K. Thaker Hereby Certify that all information submitted in this and all attached documents is to the best of my knowledge an accurate representation of the waste turned	why these documents comp	ply with	20
ATTACHED DOCUMENTS IS TO THE BEST OF MY KNOWLEDGE AN ACCURATE REPRESENTATION OF THE WASTE TURNED			
ATTACHED DOCUMENTS IS TO THE BEST OF MY KNOWLEDGE AN ACCURATE REPRESENTATION OF THE WASTE TURNED	ALL INCODERATION OF	DANITTED IN THIS AND	ALI
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		IATION OF THE WASTE	LOUINED
TO THE DRAID AN MINIMUM OF CHOPECTED HAZARDS HAVE P		TOTAL 5. SHIPPING INFORMATI DOT, HAZARDOUS MATE PROPER SHIPPING NA Waste Pa HAZARD CLASS ADDITIONAL DESCRIF METHOD OF SHIPMEN CERCLA REPORTABLE EMERGENCY RESPON DOT PUBLICATION 58 SPECIAL HANDLING IN	TOTAL 100 5. SHIPPING INFORMATION DOT, HAZARDOUS MATERIAL? YES PROPER SHIPPING NAME Waste Paint, Flammable Liquid, HAZARD CLASS 3 U.N. OR N.A. NO ADDITIONAL DESCRIPTION METHOD OF SHIPMENT BUL DRU CERCLA REPORTABLE QUANTITY (RQ) EMERGENCY RESPONSE GUIDE PAGE DOT PUBLICATION 5800.4 PAGE SPECIAL HANDLING INFORMATION Why these documents comply with , 49 CFR Ch1, ALL INFORMATION SUBMITTED IN THIS AND A ACCURATE REPRESENTATION OF THE WASTE



UNITED STATES MARINE CORPS

MARINE CORPS BASE MARINE CORPS COMBAT DEVELOPMENT COMMAND QUANTICO, VIRGINIA 22134-5000

IN REPLY REFER TO

Sample

Paint & Thinner

Date

4 Apr 97

Time

1300

Collected By:

B. Thaker

			Method =	4	
		Method	Detection		Analysis/ .
Analysis	-1 E	Number	Limit	Result	Date/Time
Flash		ASTM D 93-90	1° F	< 80° F	NB-04/07/97 @1030

Kristine M. Stein Chemist

	HAZARDOUS PROPERTIES Corrosive * Flammable	Flammable Toxic	Toxic Toxic Flammable	Flammable Flammable	Flammable Toxic Flammable	loxic Toxic		Toxic *	Toxic	Combustible	Toxic Toxic *	# C.AC
	DOT LABEL Corrosive Oxidizer	Flammable Liquid None	None None Flam. Lig./Org. Per	Flammable Liquid	Flammable Liquid None Flammable Liquid Flammable Liquid	Flammable Liquid	Flammable Liquid PCB	PCB	None	None	None None	None
	RQ ((hs) 1000	5 1		4 4	331		10	10			, 01	-
	EPA WASTE # D002 D001	D001	- D003		D001, F003 D001 D008, F001 D001	D001					- F027	F001, F002
	PROPER D.O.T. SHIPPING NAME, HAZARDOUS CLASS, UNINA NUMBER Waste, Nitric acid, Corrosive Material, UN 1760 Waste, Nitrites, inorganic N.O.S., Oxidizer, UN 2627	Waste, Oil, NA 1270	Hazardous waste solid, N.O.S., ORM-E, NA 9189 Hazardous waste solid, N.O.S., ORM-E, NA 9189 Waste, Organic peroxide, liquid N.O.S., Organic Peroxide, NA 1993	Waste, Paint, Flammable liquid, UN 1263 Waste, Paint, Flammable liquid, UN 1263 Waste, Paint, Flammable liquid, UN 1263	Hazardous waste liquid, N.O.S. ORM-E, NA 9189 Waste, Paint, Flammable liquid, UN 1263 Waste, Paint, Flammable liquid, UN 1263	Waste, Paint related material, Flammable liquid, NA 1263 Waste, Paint related material, Flammable liquid.	NA 1263 Hazardous substance liquid, N.O.S., ORM-E, NA 9188	Hazardous substance solid, N.O.S., ORM-E, NA 9188	Hazardous waste solid N.O.S., ORM-E, NA 9189	Waste, Petroleum distillate, Combustible liquid, UN 1268	waste, Oil, N.O.S., petroleum, NA 1270 Hazardous waste liquid, N.O.S., ORM-E, NA 9189	Waste, Perchloroethylene, ORM-A, UN 1897
	COMMON NAME Nitric Acid Nitrite Octane	Oil, Waste (various weights)	Oily/Greasy Rags Organic Peroxide	Paint, Carc Paint, Enamel Paint, Lacquer	Faint, Latex Paint, Lead Paint, Polyurethane Paint Remover	Paint Thinner	PCB Dielectric Fluid	PCB Light Ballast	Wood DD 680 c.t.	Penetrating Oil	Pentachlorophenol	Perchloroethylene
	ESC# 6810 6850 6850	9150	9150	8010 8010 8010	8010 8010 8010 8010	8010	9150	6250				0680
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PA	ART I			
A. GENERAL INFORMATION MUS, MWR, IIMX-1 WA	STE PROFI	E NO	QA-1	7
1. GENERATOR NAME				1.
Marine Corps Combat Development Command 2. FACILITY ADDRESS		3. GENERATO	DR USEPA ID	RCRA-10
NREA Branch, Facilities Division B046		VA117	0024722	100011 10
3040 McCawley Avenue		4. GENERATO		
Quantico, Virginia 5 ZIP CODE 22134-50	30	VA 11	70024722	PHONE
6. TECHNICAL CONTACT Bhasker K. Thaker			ng. Tech.	(703) 784-4030
B. 1. NAME OF Paint Chips &	k Media Bl	sting Materia	al	
2. USEPA / or / STATE WASTE CODE(D00	6, D00 7, D00	8	
3. PROCESS GENERATING WASTE		a Blasting		
4. PROJECTED ANNUAL VOLUME / UNIT 2000 lbs / ye	` `		COLLECTION	
6. IS THIS WASTE A DIOXIN LISTED WASTE AS DEFINED IN 40 CF	R 261.31 (.g. F020, F02	21, F022, F023, F026,	F02
F028)? YES NO	×	/se 🗀	NO , -	
7. IS THIS WASTE RESTRICTED FROM LAND DISPOSAL (40 CFR HAS AN EXEMPTION BEEN YES N		159	· ·	
DOES THE WASTE MEET APPLICABLE TREATMENT STANDARDS	S7 🚺 YES	⊠NO R	EFERENCE STANDARD	s
	RT II		- Aleiou	
1. MATERIAL CHARACTERIZATION (OPTIONAL-NOT REQUIRED DATA)		MPONENT	CONCENTRATION	N RANGE
Various colors	Blasting		95-98%	RANGE
DENSIT BTU / < 5000	Paint, so	lids	1-5%	
> 75	Paper, p	lastic	0-2%	
TOTAL SOLIDS ASH LAYERING: MULTILAYERED BILAYERED SINGLE	Lead		> 5.0 mg/L	
2. RCRA CHARACTERISTICS	Chromit		> 5.0 mg/L	
PHYSICAL STATE: SOLID LIQUI SEMI-SOLI	Cadmiu	775-37	> 1 mg/L	
TREATMENT WASTEWATE NON-WASTEWATER				
IGNITABLE (D001 REACTIVE (D003)	TOTAL		100	
FLASH POINT WATER REACTIVE CYANIDE REACTIVE		ING INFORMATI ARDOUS MATE		NO
LOW TOC (<	1	SHIPPING NA	<u> </u>	LJ.,,,
CORROSIVE TOXICITY CHARACTERISTIC		"RQ" Hazar	dous Waste Solid, N.C).S., NA 3077
pH(SEE REVERSE FOR LISTING)		**	9 U.N. O	R NA 3077
CORRODES STEEL	-	CLASS	9 U.N. O N.A. N	
3. CHEMICAL COMPOSITION (ppm or mg/L)	ADDITIO	NAL DESCRIP	TIONNOIT	
COPPER PHENOLICS	METHO	OF SHIPMEN	IT 🗌 BUL 🔀 DRU [OTHE
NICKEL TOTAL HALOGENS	CERCLA	REPORTABLE	QUANTITY (RQ)	1 lb
ZINC VOLATILE ORGANICS			SE GUIDE PAGE	
CHROMIUM-HEX PCBs	DOT PU	BLICATION 58	800.4 PAGE	EDITION (YR)
(OTHER)	SPECIAL	HANDLING II	NFORMATION	
NOTE: EXPLOSIVES, SHOCK SENSITIVE, PYROPHORIC, RADIOACTIVE, AND ETIOLOGICAL WASTE NORMALLY ARE NOT ACCEPTED BY THE DRMO.	1			
6. GENERATOR CERTIFICATION				
BASIS FOR INFORMATION CHEMICAL ANALYSIS (ATTACH TEST RESULTS)				
CHEMICAL ANALYSIS (ATTACH TEST RESULTS) USER KNOWLEDGE (ATTACH SUPPORTING DOCUMENTS - Explain how and	d why these a	ocuments com	oly with	
	Results			
Bhasker K. Thaker HEREBY CERTIFY THA	T ALL INFO	RMATION SU	BMITTED IN THIS AND	ALL
ATTACHED DOCUMENTS IS TO THE BEST OF MY KNOWLEDGE A	N ACCURA	TE REPRESEN		
IN TO THE DRMO. ALL KNOWN OR SUSPECTED HAZARDS HAVE	REEN DISC	LOSED.		
SIGNATURE OF GENERATOR'S REPRESENTATIVE	Voc.		DATE 5	-15-97

PROJECT INFORMATION

oject Namet

utomer ID:

/LC ID:

Dect Number: M00264-96-D-0002

QA17 97-03158 Collection Date:

Collection Time (hours):

Relinquished Date:

04/02/97 0925 04/02/97 Relinquished Time (hours): 0926

Received Date:

Received Time (hours):

Locations Sample Matrix:

04/03/97 1620

QA17 Solid Warte

ANALYTICAL RESULTS Toxicity Characteristic Leachate Procedure (TCLP)

PARAMETERS	METHOD	DL(MO/L)	MG/L	REGULATORY LIMIT (MG/L)	ANALYSIS DATE	INITIALS
GENIC. RIUM LDMIUM IROMIUM AD ERCURY LENIUM LYER	1311/8W 7060 1311/8W 6010A 1311/8W 7130 1311/8W7190 1311/8W 7420 1311/8W 7470 1311/8W 7760A	0.1 0.3 0.005 0.05 0.1 6.02 0.1 0,010	ND 0.7 8.75 1.63 7.3 ND ND	5.0 100.0 1.000 5.00 5.0 0.20 1.0 5.000	04/16/97 04/17/97 04/15/97 04/16/97 04/15/97 04/11/97 04/16/97 04/09/97	IF TDP IMN IMN IMN IMN IMN IMN IMN

INORGANIC COMPOUNDS	METHOD	s.U.	ANALYSIS DATE	ANALYST INITIALS
ITIAL pH (8.U.) NAL pH (8.U.) MPLE WEIGHT CTRACTION FLUID	EW 9040A EW 9040A NA NA	7,85 5,07 20.02	04/07/97 04/08/97 04/07/97 04/07/97	GRP GRP GRP GRP

A = Not Applicable

) = Not Detected

3 - Not Olven

SUBMITTED BY:

James R. Reed and Associates

mantico Marine Corp. Base NREA 113: 15 ictine Stein -C McChilley Avenue, Suite 2 Smithon N.A. 22134-5052

11864 Canon Blvd., Suite 103 Newport News, VA 23606 (804) 873-4703

Samples Received: 12/15/94 @ 08:32
Samples Collected: 12/14/94 @ dines not given

Iontract =: M00264-95-D-0002

Simple ID: Blast Media - Museum #95107

min fft CERTAO - AU .

Andysi.		EPA HV Number	/ SW 846 Method	Method Detection <u>Limit</u> (mg/L)	Practical Quantitation Limit (mg/L)	Regulatory Level (mg/L)	Results (mg/L)	Analyst/Date/Time
9	٠.	TOXIC	TTY CHARA	CTERISTIC	CONSTITUE	NTS		
Aisenic Barium Cadmium Chomium Lead Mercury Seleniem Silve:		D004 D005 D006 D007 D008 D009 D010 D011	7060 7080 7130 7090 7420 7470 7740 7760A	0.001 0.5 0.007 0.04 0.1 0.0002 0.002	0.001 0.5 7 0.4 0.1 0.0002 0.002	5.0 100.0 1.0 5.0 5.0 0.2 1.0 5.0	<0.001 <0.5 64 6.3 0.8 <0.0002 <0.002 <0.01	FPE-12/23/94 @ 17:25 FPE-12/22/94 @ 10:30 FPE-12/23/94 @ 15:00 FPE-12/23/94 @ 16:00 FPE-12/23/94 @ 14:20 SKH-12/28/94 @ 08:00 FPE-12/26/94 @ 12:50 FPE-12/26/94 @ 09:00

Respectfully,

Vice President

20 RESEARCH DRIVE HAMPTON, VIRGINIA 23866 TELEPHONE (804) 865-0880 FAX: 804-865-8014 TOLL FREE 800-695-2162

REPORT OF ANALYSIS

05/12/94

TO:

NREA BRANCH CODE (C 046)

3040 MC CAWLEY AVE. MARINE CORPS BASE

QUANTICO

VA 22134-5053

ATTN: CARLOS REYES

MATRIX: WASTE MATERIAL

SAMPLING DATE - TIME: 04/15/94 - 0800

EXTRACT DATE - TIME: 04/25/94 - 1200

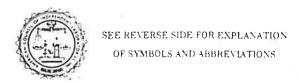
SAMPLE ID: 94087 SAMPLE LOC:

TCLP (SW 846, Method 1311)

RECEIVED DATE: 04/15/94

BAL LOG NO(s). 9403360 BAL W/O NO. 9400226

norganic/	4.5		Test	Regulatory	' Analysis			
(Method)				Results mg/l	Limits mg/l	Date	Time Ir	ıt —
ILVER (TCLP)			<	0.01	5	04/28/94	1326 MA	₹G
(7760/6010) RSENIC (TCLP) (7060/6010)		III NO NO	<	0.01	5	04/28/94	1326 MA	4G
RIUM (TCLP) (7080/6010)				2.26	100	04/28/94	1326 MA	₹G
ADMIUM (TCLP) (7130/6010)				5.587	1	04/28/94	1376 MA	\G
ROMIUM (TCLP) (6010/7190)	w			0.30	5	04/28/94	1326 MA	\G
ERCURY (TCLP) (7470/6010)			W	0.0006	0.2	05/12/94	1023 MI	LB
TAD (TCLP) (7420/6010)				1.15	5	04/28/94	1326 MA	\G
ELÈNIUM (TCLP) (7740/6010)	. 6	F 7		0.02	1	04/28/94	1326 MA	\G



RESPECTIVLLY SUBMITTED.

20 RESEARCH DRIVE HAMPTON, VIRGINIA 23666 TELEPHONE (804) 865-0880 FAX: 804-865-8014 TOLL FREE 800-695-2162

REPORT OF ANALYSIS

05/12/94

TO:

NREA BRANCH CODE (C 046)

3040 MC CAWLEY AVE. MARINE CORPS BASE

QUÀNTICO / VA 22134-5053

ATTN: CARLOS REYES

MATRIX: WASTE MATERIAL

SAMPLING DATE - TIME: 04/15/94 - 0800

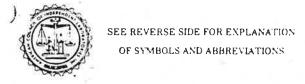
EXTRACT DATE - TIME: 04/25/94 - 1200

SAMPLE ID: 94088

 RECEIVED DATE: 04/15/94

BAL LOG NO(s). 9403361 BAL W/O NO. 9400226

norganic/			Test	Regulatory	Anal	ysis	5
(Method)			Results mg/l	Limits mg/l	Date		Int
ILVER (TCLP) (7760/6010)	** *** *** *** *** *** *** *** *** ***	<	0.01	5	04/28/94	1326	MAG
RSENIC (TCLP) (7060/6010)			0.02	5	04/28/94	1326	MAG
AZUM (TCLP) (7080/6010)	N 51 N		3.31	100	04/28/94	1326	MAG
ADMIUM (TCLP) (7130/6010)		·	4.042	1	04/28/94	1376	MAG
HROMIUM (TCLP) (6010/7190)			0.49	5	04/28/94	1326	MAG
ERCURY (TCLP) (7470/6010)		<	0.0002	0.2	05/12/94	1023	MLB
EAD(TCLP) (7420/6010)			11.07	5	04/28/94	1326	MAG
ELENIUM (TCLP) (7740/6010)			0.01	1 ,	04/28/94	1326	MAG



RESPECTIVILLY SUBMITTED,



November 6, 1996

Paint Chips from HIIX-1 & GSE

Ms. Kristine Stein NREA Branch, B0462.1 3040 McCawley Avenue Suite 2 Quantico, VA 22134-5053

Dear Ms. Stein:

Please find enclosed the analytical results for the Solid Waste samples collected on October 23, 1996.

If you should have any questions, please feel free to contact me.

Sincerely,

Ted M. Schumacher

Laboratory Director

TMS/tmj

Enclosure

PROJECT INFORMATION

Project Name: Project Number: Customer ID:

CVLC ID:

M00264-96-D-0002 Corresion Control

96-09853

Collection Date: Collection Time (hours): Relinquished Date:

10/23/96 0900 10/23/96 Relinquished Time (hours): 1030

Received Date: Received Time (hours): Location: Sample Matrix:

10/23/96 1755 Corrosion Control Solid Waste

ANALYTICAL RESULTS Toxicity Characteristic Leachate Procedure (TCLP)

PARAMETERS	METHOD	DLMGL	MGL	REGULATORY* LIMIT (MG'L)	ANALYSIS DATE	ANALYST INITIALS
INITIAL pH(S.U.)	SW:9040A	2.00	6.58	NA	10/25/96	GRP
FINAL pH(S.U.)	SW:9040A	2.00	5.13	NA *	10/25/96	GRP
SAMPLE WEIGHT(g)	NA	NA NA	25.32	NA	10/25/96	GRP
EXTRACTION FLUID	NA	NA	1	NA.	10/25/96	GRP
ARSENIC	1311/SW 7060	0.1	ND	5.0	11/01/96	CA
BARIUM	1311/SW 5010A	0.3	1.1	100.0	11/01/96	TDP
CADMIUM	1311/SW 7130	0.005	4.55	1.000	10/30/96	JH
CHROMIUM	1311/SW 7190	0.05	28.4	5.00	10/31/96	лн _
LEAD	1311/SW:7420	0.1	ND	5.0	10/30/96	ЛН
MERCURY	1311/SW 7470	0.02	ND	0.20	11/01/96	ЛН
SELENIUM	1311/SW 7740	0.1	ND	1.0	10/31/96	CA
SILVER	1311/SW <i>T</i> 760A	0.010	0.010	5.000	11/06/96	CA

*40 CFR 261 Established Limits.

ND = Not Detected

NG = Not Given -

NA = Not Applicable

PROJECT INFORMATION

Project Name: Project Numbers Customer ID: CVLC ID:

M00264-96-D-0002 GSE 96-09854

Collection Date: Collection Time (bours): Relinquished Date: 10.236 Relinquished Time (hours): 1030

10/23/96 0900 10.23/96

Received Time (hours): Location: Sample Matrix:

10/23/96 1755 GSB Solid Waste

ANALYTICAL RESULTS Toxicity Characteristic Leachate Procedure (TCLP)

PARAMETERS	METHOD	DL/MGL)	MG·L	REGULATORY* LIMIT (MGL)	ANALYSIS DATE	ANALYST INITIALS
INITIAL pH(S.U.)	SW 9040A	2.00	6.69	NA	10/25/96	ŒĽ
FINAL pH4S.U.)	SW 9040 A	2.00	5.58	NA	10/25:96	CRLP
SAMPLE WEIGHT(g)	NA	NA NA	40.00	NA	10/26/96	GRP
ENTRACTION FLUID	NA	NA	1	NA	10/26/96	GRP
ARSENIC	1311/SW 7060	0.1	ND	5.0	11/01/96	CA
BARIUM	1311/SW 6010A	6.3	0.8	= 100.0	11/01/96	TDP
CADMIUM	1311/SW 7130	0.005	448	1,000	10/30/96	лн
CHROMIUM	1311/SW 7190	0.05	43.0	5.00	10/31/96	лн
LEAD	1311/SW 7420	0.1	0.3	5.0	10/30/96	т
MERCURY	1311/SW 7470	0.02	0.02	0.20	11/01/96	щ
SELENUM	1311/SW 7740	0.1	ND	1.0	11/02/96	TDP
SILVER	1311/SW 7760A	0.010	ND	5.000	11/06/96	CA

*40 CFR 261 Established Limit.

ND = Not Detected

NG = Not Given

NA = Not Applicable



CIC Media Blastin from CENTRAL VIRGINIA Auts Hobby Shop. LABORATORIES & CONSULTANTS, INC.

April 28, 1997

Ms. Kristine Stein NREA Branch, B0462.1 3040 McCawley Avenue Suite 2 Quantico, VA 22134-5053

Dear Ms. Stein:

Please find enclosed the analytical results for the Solid Waste sample collected on April 9, 1997.

If you should have any questions, please feel free to contact me.

Sincerely.

Ted M. Schumacher

Laboratory Director

TMS/sts

Enclosures

PROJECT INFORMATION

Project Name:

Project Name: Auto Hobby Shop 'roject Number: M00264-96-D-0002

Collection Date: Collection Time (hours):

AHS-blast modia Relinguished Date: 04/09/97 1000 04/09/97 Received Date: Received Time (hours): 04/10/97 1330

AHS-blast media

Customer ID: CVLC ID:

97-03363

Relinquished Time (hours): NO Location: Sample Matrix:

Solid Waste

ANALYTICAL RESULTS Toxicity Characteristic Leachate Procedure (TCLP)

PARAMETERS		METHOD	DL(MO/L)	MG/L	REGULATORY LIMIT (MG/L)	ANALYSIS DATE	ANALYST INITIALS
ARSENIC		1311/SW 7060	0.1	ND	5.0	04/22/97	TDP
3ARIUM		1311/SW 6010A	0,3	1,3	100.0	04/17/97	TDP
CADMIUM		1311/SW 7130	0.005	8.02	1,000	04/15/97	JMN
CHROMIUM	2	1311/8W7190	0.05	0.26	5.00	04/16/97	MM
.EAD		1311/SW 7420	0.1	1,4	5.0	04/15/97	JWDN
MERCURY		1311/8W 7470	0,02	ND	0.20	04/18/97	JMIN
ELENIUM		1311/SW 7740	0.1	ND	1,0	04/22/97	TDP
IILVER		1311/SW 7760A	0.010	ND	5.000	04/24/97	JMN'

		90	ANALYSIS	ANALYST
INORGANIC COMPOUNDS	METHOD	s.u.	DATE	INITIALS
VITIAL PH (S.U.)	NÄ.	9.04	04/10/97	GRP
INAL pH (S.U.)	NA	5.14	04/11/97	GRP
AMPLE WEIGHT	5W 1311	25.02	04/10/97	GRP
XTRACTION FLUID	8W1311	1	04/10/97	GRP

4 = Not Applicable

) = Not Detected

; = Not Given



April 30, 1997

Ms. Kristine Stein NREA Branch, B0462.1 3040 McCawley Avenue Suite 2 Quantico, VA 22134-5053

Dear Ms. Stein:

Please find enclosed the analytical results for the Solid Waste sample collected on April 15, 1997.

If you should have any questions, please feel free to contact me.

Sincerely,

Ted M. Schumacher Laboratory Director

TMS/sts

Enclosures

PROJECT INFORMATION

Project Name: Sustamer ID:

CVLC ID:

Museum

97-03568

Project Number: M00264-96-D-0002 Blast Media

Collection Date:

Collection Time (hours): Relinquished Date: Relinquished Time (hours):

04/15/97 NO 04/16/97

NO

Received Date:

Sample Matrix:

Received Time (hours): Location:

04/16/97 2030

Blast Media Solid Waste

ANALYTICAL RESULTS Toxicity Characteristic Leachate Procedure (TCLP)

PARAMETERS	METHOD	DL(MO/L)	MG/L	REGULATORY LIMIT (MQ/L)	ANALYSIS DATE	ANALYST INITIALS
ARSENIC	1311/SW 7060	0.1	ND	5.0	04/22/97	TDP
BARIUM	1311/8W 6010A	0.3	0,9	100.0	04/28/97	TDP
CADMIUM	1311/9W 7130	0.005	11.4	1,000	04/22/97	JMN
CHROMIUM	1311/SW7190	0.05	2.75	5,00	04/28/97	JMN
LEAD	1311/8W 7420	0.1	0.1	5,0	04/22/97	SMS
MERCURY	1311/8W 7470	0.02	ND	0.20	04/25/97	JMON
SELENIUM	1311/SW 7740	. 0.1	מא	1.0	04/22/97	TDP
BILVER	1311/ SW 7760Å	0.010	ND	5.000	04/24/97	JMN

INORGANIC COMPOUNDS	METHOD	f.U.	DATE	ANALYST DITTALS
NITIAL pH (S.U.) INAL pH (S.U.) AMPLE WEIGHT(g) XTRACTION FLUID	SW9040A SW9040A SW1311 SW1311	7.58 4.63 25.23g	04/17/97 04/18/97 04/17/97 04/17/97	GRP GRP GRP

1 = Not Applicable

= Not Detected

- Not Given

A. GEMERAL INFORMATION	WASTE PROF	ILE NO.	QA	-29
1. GENERATOR NAME		7,		
Marine Corps Combat Development Command				RCRA-10
NREA Branch, Facilities Division B046		3. GENERAT	70024722	ICCICIO 10
3040 McCawley Avenue		4. GENERAT		
	134-5030	3	170024722	
6. TECHNICAL CONTACT	134-3030	7. TITLE .		PHONE
Bhasker K. Thaker	f	Env. E	ng. Tech.	(703) 784-4030
B. 1. NAME OF	Q-Tips and pa	atches		
2. USEPA / or / STATE WASTE CODE:		D008		
3. PROCESS GENERATING WASTE		aning operation	on	
4. PROJECTED ANNUAL VOLUME / U. = 2000 Lbs	/ Year	5. MODE OF	COLLECTION	
6. IS THIS WAS LE A DIOXIN LISTED VES LE AS DEFINED IN	N 40 CFR 261.31	(e.g. F020, F0	21, F022, F023, F026	, F02
F02817 TYES NO	_	_	4	
7. IS THIS WASTE RESTRICTED FROM LAND DISPOSAL (40 HAS AN EXEMPTION BEEN TYPES D		YES	NO	
HAS AN EXEMPTION BEEN YES ODES THE WASTE MEET APPLICABLE TRIATMENT STAN	N N N N N N N N N N N N N N N N N N N	₩ NO F	REFERENCE STANDAR	DS
SOLO THE WHOLE MEET ALL COASES THE SHIRENT STATE	PART II	Z)110	III.IIOE OTAIIDAN	
1. MATERIAL CHARACTERIZATION		TERIAL COMP	OSITION	
(OPTIONAL-NOT REQUIRED DATA)		OMPONENT	CONCENTRATIO	ON RANGE
COLOR	Q-Tips	& Patches	100%	1
DENSITBTU /	Lead		44.4 ppm	1
TOTAL SOLIDS AS:				
LAYERING: MULTILAYERED BLAYERED SINGLE				- X - X - X - X
2. RCRA CHARACTERISTICS				
PHYSICAL STATE: SOLID LIQUI SEMI-SOLI	-			
GAS OTHER TREATMENT WASTEWATE MON-WASTEW	ATER		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
IGNITABLE (D001 DECET VE (D003)	TOTAL	7	100	
FLASH POINT WANTER REACTIVE		PING INFORMAT		
HIGH TOC (> CYANIDE REACTIV	VE	ZARDOUS MATE	₩ 1.E3	□NO
LOW TOC (< SULFIDE REACTIV		SHIPPING NA		
CORROSIVE MARACTERIST pH //SEE REMERSE FOR LISTIN		KQ Hazarı	dous Waste, Solid N.().S., NA 3077
CORRODES STEEL	HAZAR	D CLASS	9 U.N. (
3. CHEMICAL COMPOSITION (ppm or 1		7,5		
COPPED PRES OF	1.1		PTION	, and a second contract of the second contrac
	METHO	D OF SHIPMEN	NT BUL DRU	OTHE
NICKEL FOTA AL EVIS	CERCLA	REPORTABLE	EQUANTITY (RQ)	
ZINC ,	EMERG!	ENCY RESPON	ISE GUIDE PAGE	1.5
CHRITTEN POD	DOT PU	BLICATION 58	300.4 PAGE	EDITION (YR)
(OTHER:	SPECIA	L HANDL <mark>ing I</mark> I	NFORMATION	
NOTE E RECONTER SHOOK CENSITIVE, PYPOPHORY START AND ETIOLOG WAS TO LOTE ARE NOT A TOPPTED ENTRY OF	FICAL			
6. GENERALOR CERTIFICATION	, VV			8
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	how and why these	documents com	oly with	
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April 17, 1997

Ms. Kristine Stein NREA Branch, B0462.1 3040 McCawley Avenue Suite 2 Quantico, VA 22134-5053

Dear Ms. Stein:

Please find enclosed the analytical results for the Solid Waste samples collected on April 2, 1997.

If you should have any questions, please feel free to contact me.

Sincerely,

Ted M. Schumacher

Laboratory Director

TMS/sts

Enclosures

PROJECT INFORMATION

Project Number: Project Number: Customer ID:

CVLC IDI

NO

Project Number: M00264-96-D-0002

QA29 97-03157 Collection Date:

Collection Time (hours):

Ralinquished Date: Ralinquished Time (hours):

04/02/97 0907 04/02/97

0907

Received Date:
Received Time (hours):
Leastion:

Location: Sample Matrix: 04/03/97 1620 QA29

QA29 Solid Wasto

ANALYTICAL RESULTS Toxicity Characteristic Leachets Procedure (TCLP)

PARAMETERS	METHOD	DL(MG/L)	MG/L	REGULATORY LIMIT (MG/L)	ANALYSIS DATE	ANALYST INITIALS
ARSENIC BARIUM CADNIUM CHROMIUM LEAD MERCURY SELENIUM SILVER	1311/SW 7060 1311/SW 6010A 1311/SW 7130 1311/SW7190 1311/SW 7420 1311/SW 7740 1311/SW 7760A	0.1 0.3 0,005 0.05 0.1 0.02 0.1 0.010	ND 9.7 0.011 ND 12.4 ND ND	5.0 100,0 1.000 5.00 5.0 0.20 1.0 5.000	04/16/97 04/17/97 04/15/97 04/16/97 04/15/97 04/11/97 04/16/97 04/09/97	IF TDP IMN IMN IMN IMN IF

INORGANIC COMPOUNDS	METHOD	S.U.	ANALYSIS DATE	ANALYST
INITIAL pH (B.U.) FINAL pH (B.U.) SAMPLE WEIGHT (G) EXTRACTION FLUID	8W 9040A 9040A NA NA	8.05 5.05 20.06	04/07/97 04/02/97 04/07/97 04/07/97	orp Grp Grp Grp

NA = Not Applicable

ND - Not Detected

NG - Not Given

Wasie Characterization Guidelines.

BESPECTFULLY SUBMITTED BY: Everley E. Blancharch

Chrol Isenhour

President

IDATE: April 18, 1996

THE TO LOUD THE

CLIENT: Quantico Marios Corp. Base NREA SAMPLE ID: 96-124 FBI. SW PMCMM

AMPLE NO: 94-4130

Narrano.	ETY No.	Minister Name		Regulatory Layar (mg/L)	Own Children	Result (mg/L)	Андунурам тыс
TOXICITY CHARACTER	ISTIC LEACE	IING PROCEDU	RE (continued)				
Cresol	D026	8270	0.050	200.0		<0.050	CLH-04/09/90 @ 1450
I.A-dichiocoberraena	D027	2240	0.005	7.5		<0.005	CDN-04/10/96 @ 1804
1,2-dichlorosthans	D028	8240	0.005	0.5		<0.005	CDN-04/10/96 @ 1804
1,1-dichloroethylese	D029	2240	0.005	0.7		<0.005	CDN-04/10/96 @ 1804
2,4-dializotsluene	D030	\$270	0.005	0.13		<0.005	CLH-04/09/96 @ 1450
Hexachlorobenzene	D032	8270	0.005	0.13	2	<0.005	CLH-04/09/96 @ 1450
Hexachloro-1,3-butadiene	D033	8270	0.005	0.5		<0.005	CLH-04/09/96 @ 1450
Herachiorosthanc	D034	8270	0.005	3.0		<0.005	CLH-04/09/96 @ 1450
Lead	D006	6010	0.005	db.			FPE-04/10/96 @ 1543
Meroury	D009	7470	0.0002	0.2		<0.0002	SKH-04/09/96 @ 1230
Methyl sthyl kathos	DOSS	\$240	0.100	200.0		4 0.100	CDN-04/10/96 @ 1800
Nisrobauseae	D036	\$270	0.005	2,0		<0.005	CLH-04/09/96 @ 1450
Festschlerophesol	D037	8270	0.010	100.0		40.010	CLH-04/09/96 @ 1450
yridine	D038	8270	0.500	5.0		<0.500	CTH-04/09/96 @ 1450
Scientum	D010	6010	0.005	1.0		◆.00 5	PPE-04/10/96 @ 1543
Silver	D011	6010	0.001	3.0		40.001	FPE-04/10/96 @ 1543
Typychiarcetryleac	D039	2240	0.005	0.7		<0.005	CDN-04/10/96 @ 180
Tricklarosteriere	D040	2240	0.005	0.5		<0.005	CDN-04/10/96 @ 180
2,4,5-t-ichlerophenoi	D041	\$270	0.050	400.0		€0.050	CLH-04/09/96 @ 1450
2.4.6-triphiprophenoi	D042	\$276	0.050	2.0		⊘.050	CL11-04/09/96 @ 1450
Yinyi Chioride	D043	2240	0.010	0.2		⊕ 010	CDN-04/10/96 @ 140
Phethpolat	N/A	1010	N/A	•		>100°C/212'F	SKH-04/12/96 @ 143
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